CONCORDIA UNIVERSITY

1980-1981 UNDERGRADUATE CALENDAR

1980

January

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

February

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
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March

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						1
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9	10	11	12	13	14	15
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23	24	25	26	27	28	29
30	31					

April

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May

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June

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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

July

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

August

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

September

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

October

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

November

S	M	T	W	T	F	S
						1
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9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

December

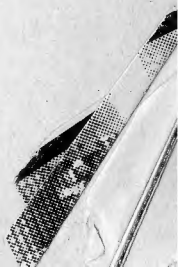
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

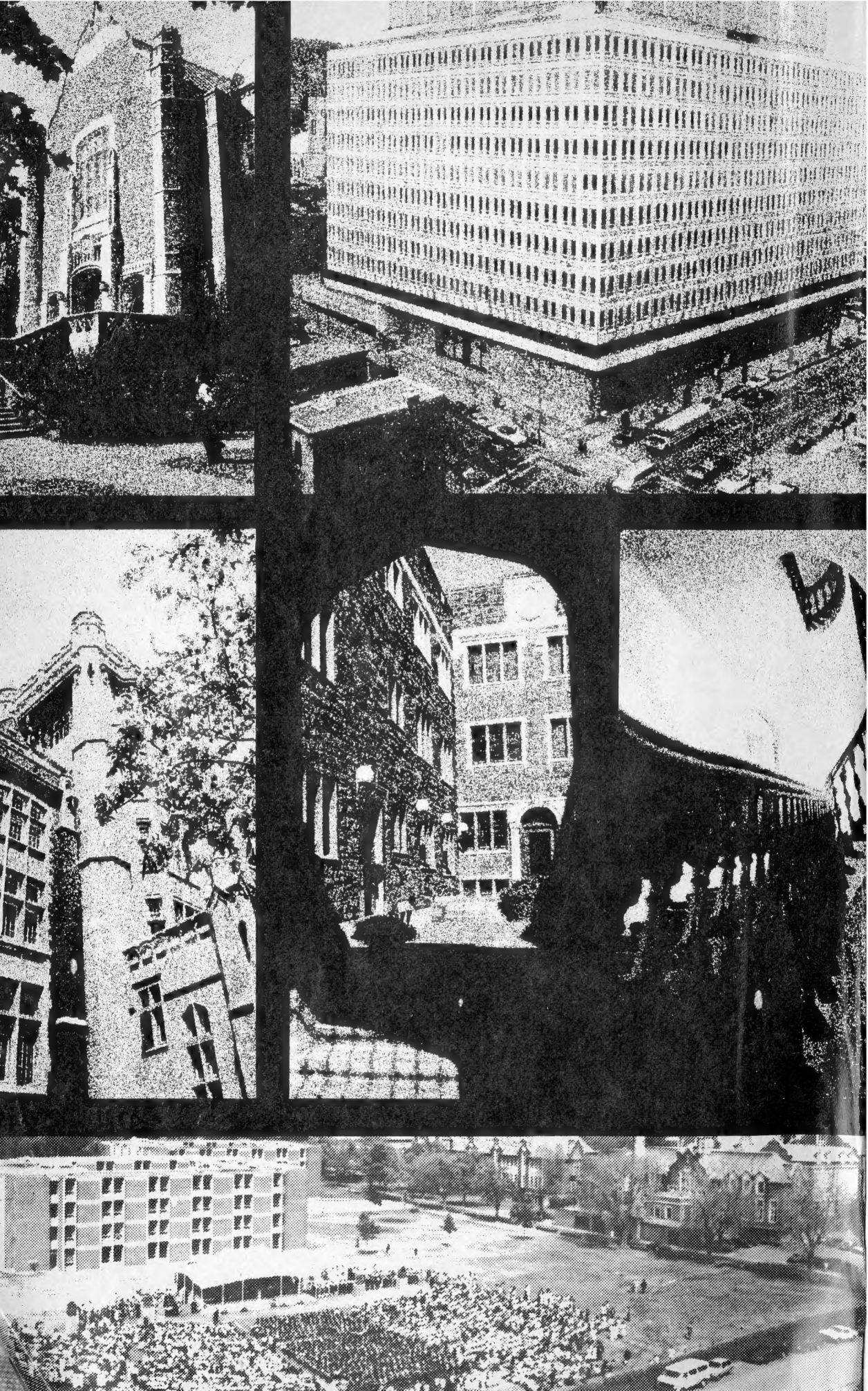
Concordia University 1980-81

Betty

Sir George Williams Campus
1455 de Maisonneuve West
Montreal, Quebec
H3G 1M8

Loyola Campus
7141 Sherbrooke Street West
Montreal, Quebec
H4B 1R6





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This is the only official listing of undergraduate courses offered at Concordia University.

Please consult the index for a listing of those courses which were offered in the Summer of 1979 only, but are not a part of the continuing corpus of course offerings.

Not all courses listed in this Calendar are offered in 1980-81. Students are advised to consult the Registration Handbook, issued at Registration, for a time-table of courses offered.

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Concordia

Concordia University is located in downtown and west end Montreal. The name of the university reflects its place within the community; it is drawn from the motto of the City of Montreal, "Concordia Salus".

The university has strong traditions in part-time undergraduate education. Indeed, more than half its students work full-time during the day.

Concordia's graduate programmes also place great emphasis on the part-time student.

Founded in 1974 with the merger of Loyola College and Sir George Williams University, the university now offers undergraduate courses in four faculties: Arts & Science, Commerce & Administration, Engineering, and Fine Arts.

The Master's degrees awarded by the university include the Master of Arts, the Master of Science, the Master of Computer Science, the Master of Engineering, the Master of Engineering in Building, the Master of Fine Arts, the Master of Teaching in Mathematics and the Master of Business Administration.

Doctorates are awarded in Administration, Art Education, Chemistry, Computer Science, Economics, Engineering, History, Humanities, Physics, Psychology and Religion. The university also offers diploma programs in Accountacy, Art Education, Communication Studies, Community Politics and the Law, Early Childhood Education, History, Institutional Administration, Instructional Technology, Library Studies, Sports Administration, The Teaching of Mathematics, and Theological, Religious and Ethical Studies.

Enrolment in the 1979-80 academic year was:

— Full-time undergraduate	9708
— Part-time undergraduate	9831
— Full-time graduate	928
— Part-time graduate	1450
— Other (credit non-degree)	1524

In addition to the programmes described in this calendar and in the Graduate Studies Calendar, the university offers a wide range of summer programmes on both campuses. A separate publication listing summer programmes is published annually.

Art Collection and Galleries

The Concordia University collection of art is housed on both campuses. Portions of the collection are displayed in public areas of the Loyola campus and in the galleries and display areas of the Sir George Williams campus. The collection comprises an extensive survey of modern Canadian paintings, drawings, graphic art, sculpture and minor art.

There are three art galleries: The Weissmann Gallery, Gallery One and Gallery Two, located on the mezzanine floor of the Henry F. Hall Building. There are also open display areas on the same floor. There is a continuous programme of outside exhibitions and shows by students and faculty throughout the academic year. On occasion the galleries are also used for concerts, guest lectures and other cultural events.

A modern gallery displaying the work of Fine Arts students is now open at the Dorchester Blvd. entrance to the new Fine Arts Building.

Theatre, Music and Arts Studios

The Faculty of Fine Arts operates the Douglass Burns Clarke Theatre located in the Hall Building. It is a modern facility seating 380 people, and is used primarily for dramatic productions and musical performances. The 650-seat F. C. Smith Auditorium, located on the Loyola campus, is used for a wide variety of activities, including cinema, theatre and music performances. On the same campus, the Chameleon Theatre, a flexible teaching theatre facility, serves the theatre students.

Most of the specialized studios and workshops for undergraduate and graduate students are located in the new Fine Arts Building on Dorchester Blvd. West.

Music students use ensemble rooms in the Refectory Building on the Loyola campus where a number of practice studios of various sizes are maintained. Performances are held in the large ensemble rooms and, occasionally, in the Chapel or in the D. B. Clarke Theatre.

Audio-visual Facilities

The Audio-visual Department arranges access to such resources as television and sound studios, language laboratories, distribution centres for equipment and supplies, units for the production of materials in film, graphics, photography, TV and audio, and a visual media service specializing in the research and procurement of films and videotapes.

Film Presentations

The university shows films in cinema halls on both campuses. At Sir George Williams, the Conservatory of Cinematographic Art, established in 1968, houses an important collection of films of historical and cultural value. It organizes annually a series of film festivals which often involve appearances by important figures from the film world.

Libraries

The Concordia University Libraries contain over one million items which increase at an average rate of 65,000 items per year. There are two libraries on each campus and students may use facilities on both campuses. The annual *Library Owner's Manual* contains information on resources and services offered by the Concordia Libraries.

The Norris Library on the Sir George Williams campus contains books, microfilms, periodicals, and non-print materials for students in all areas except those in science and technology. The Science and Engineering Library, in the Hall Building on the same campus, contains materials concerned with the pure and applied sciences. The Sir George Williams campus libraries have been designated a full depository for publications of the Canadian federal and Quebec governments, and also receive selected documents from a number of other provinces and countries.

The Georges P. Vanier Library and the Drummond Science Library are located on the Loyola campus. Resources include books, selected government documents of Quebec, Canada and other countries; films and other non-print materials, microforms and periodicals.

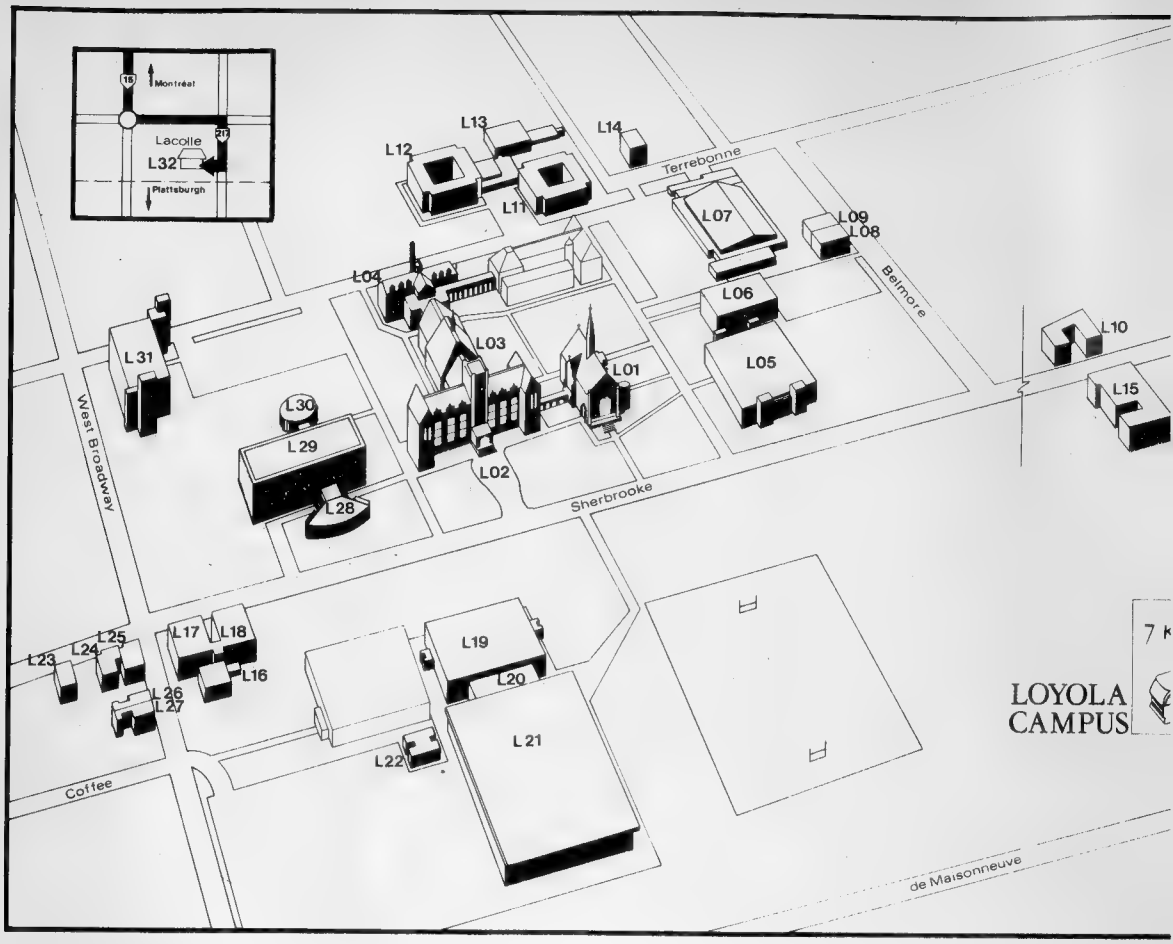
Laboratories and Computing Services

The University has 100 laboratories on both campuses with modern equipment for teaching and research in Biology, Chemistry, Physics, Engineering, Statistics, Psychology, Geography, Languages and Communication Studies.

The Computer Centre provides computing services to the university community. Students enrolled in any discipline are entitled to the use of the centre's facilities, which include over 100 timesharing terminals. The centre maintains an extensive software and application library and provides programming assistance and advice.

Sports Facilities

The university offers extensive programmes for participation in intramural and intercollegiate sports. Facilities used include several full-length playing fields, and a fully-equipped physical education centre on the Loyola Campus. The centre contains a gymnasium and an ice arena as well as training and rehabilitation areas, an activities room, a combatives room for individual contact sports and a weight-training room.



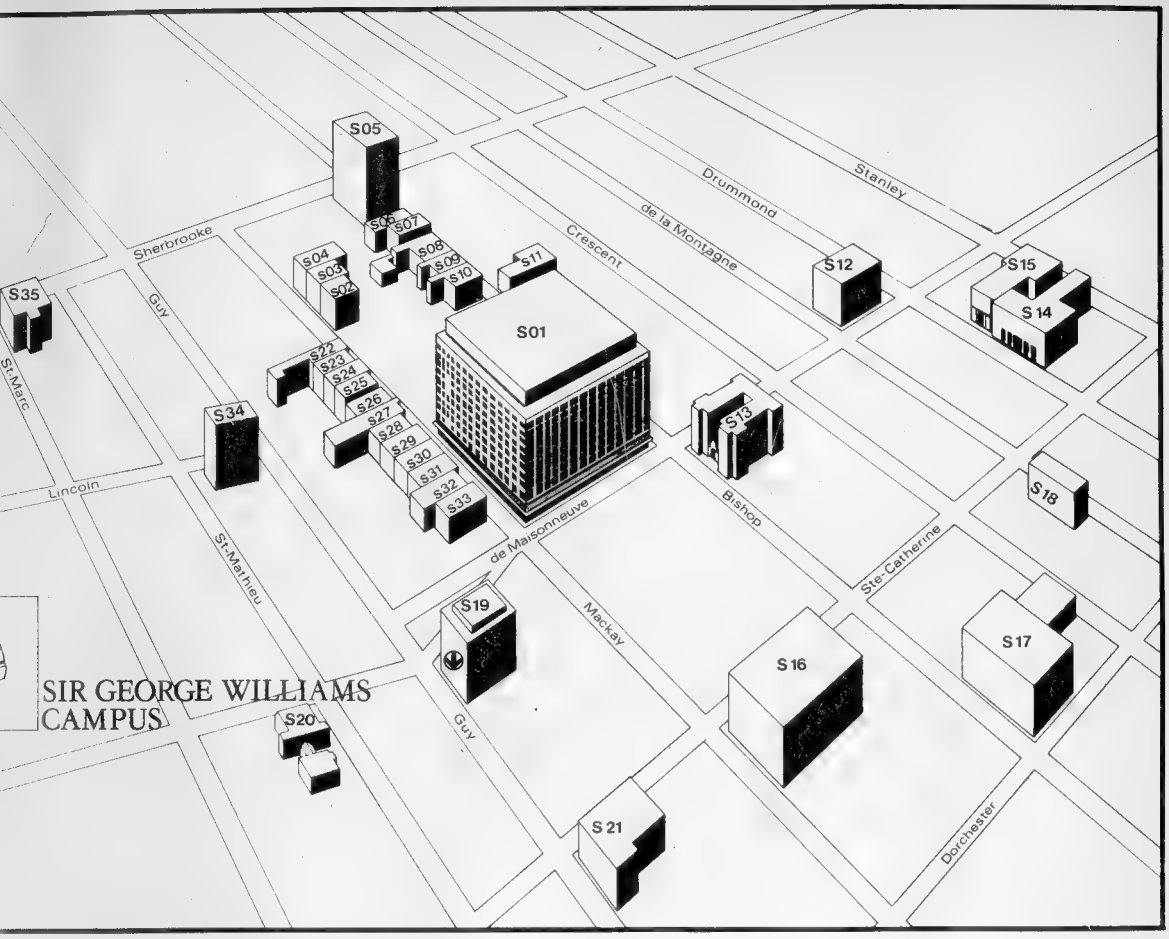
Loyola Campus

NUMERICAL KEY

L01	FC	7141 Sherbrooke o.	F. C. Smith Auditorium
L02	AD	7141 Sherbrooke o.	Administration Building
L03	CC	7141 Sherbrooke o.	Central Building
L04	RF	7141 Sherbrooke o.	Refectory Building
L05	VL	7141 Sherbrooke o.	Vanier Library
L06	SC	7141 Sherbrooke o.	Campus Centre
L07	PS	7141 Sherbrooke o.	Physical Services Bldg.
L08	BB	3502 Belmore	Belmore Building
L09	BH	3500 Belmore	Belmore House
L10	CH	6931-37 Sherbrooke o.	Centennial Building
L11	HA	7141 Sherbrooke o.	Hingston Hall 'A' Block
L12	HB	7141 Sherbrooke o.	Hingston Hall 'B' Block
L13	HC	7141 Sherbrooke o.	Hingston Hall 'C' Block
L14	TA	7079 Terrebonne	Terrebonne
L15	LH	6900 Sherbrooke o.	Langley Hall
L16	WB	2499/2501 West Broadway	West Broadway 1
L17	CL	7282 Sherbrooke o.	Cloran Building
L18	HK	7270 Sherbrooke o.	Hackett Building
L19	PG	7200 Sherbrooke o.	Physical Ed. — Gym.
L20	PA	7200 Sherbrooke o.	Physical Ed. — Admin.
L21	PE	7200 Sherbrooke o.	Physical Ed. — Rink
L22	PP	7200 Sherbrooke o.	Physical Ed. — Boiler
L23	RG	7328 Sherbrooke o.	Sherbrooke 1
L24	RC, RD	7306/7308 Sherbrooke o.	Sherbrooke 2
L25	RA, RB	7300/7302 Sherbrooke o.	Sherbrooke 3
L26	WE, WF	2494/2496 West Broadway	West Broadway 2
L27	WC, WD	2490/2492 West Broadway	West Broadway 3
L28	DA	7141 Sherbrooke o.	Drummond Auditorium
L29	DS	7141 Sherbrooke o.	Drummond Science Bldg.
L30	DL	7141 Sherbrooke o.	Drummond Library
L31	BR	7141 Sherbrooke o.	Bryan Building
L32	LC	Lacolle, Quebec	Lacolle Centre

ALPHABETICAL KEY

Administration Building	AD	7141 Sherbrooke o.	L02
Belmore Building	BB	3502 Belmore	L08
Belmore House	BH	3500 Belmore	L09
Bryan Building	BR	7141 Sherbrooke o.	L31
Campus Centre	SC	7141 Sherbrooke o.	L06
Centennial Building	CH	6931-37 Sherbrooke o.	L10
Central Building	CC	7141 Sherbrooke o.	L03
Cloran Building	CL	7282 Sherbrooke o.	L17
Drummond Auditorium	DA	7141 Sherbrooke o.	L28
Drummond Library	DL	7141 Sherbrooke o.	L30
Drummond Science Bldg.	DS	7141 Sherbrooke o.	L29
F. C. Smith Auditorium	FC	7141 Sherbrooke o.	L01
Hackett Building	HK	7270 Sherbrooke o.	L18
Hingston Hall 'A' Block	HA	7141 Sherbrooke o.	L11
Hingston Hall 'B' Block	HB	7141 Sherbrooke o.	L12
Hingston Hall 'C' Block	HC	7141 Sherbrooke o.	L13
Lacolle Centre	LC	Lacolle, Quebec	L32
Langley Hall	LH	6900 Sherbrooke o.	L15
Physical Ed. — Admin.	PA	7200 Sherbrooke o.	L20
Physical Ed. — Boiler	PP	7200 Sherbrooke o.	L22
Physical Ed. — Gym.	PG	7200 Sherbrooke o.	L19
Physical Ed. — Rink	PE	7200 Sherbrooke o.	L21
Physical Services Bldg.	PS	7141 Sherbrooke o.	L07
Refectory Building	RF	7141 Sherbrooke o.	L04
Sherbrooke 1	RG	7328 Sherbrooke o.	L23
Sherbrooke 2	RC, RD	7306/7308 Sherbrooke o.	L24
Sherbrooke 3	RA, RB	7300/7302 Sherbrooke o.	L25
Terrebonne	TA	7079 Terrebonne	L14
Vanier Library	VL	7141 Sherbrooke o.	L05
West Broadway 1	WB	2499/2501 West Broadway	L16
West Broadway 2	WE, WF	2494/2496 West Broadway	L26
West Broadway 3	WC, WD	2490/2492 West Broadway	L27



Sir George Williams Campus

NUMERICAL KEY

S01	H	1455 de Maisonneuve o.	Henry F. Hall
S02	M	2135 Mackay	Annex M
S03	S	2145 Mackay	Annex S
S04	CI	2149 Mackay	Annex CI
S05	A	1420 Sherbrooke o.	Annex A
S06	MU	2170 Bishop	Annex MU
S07	B	2160 Bishop	Annex B
S08	K	2150 Bishop	Annex K
S09	D	2140 Bishop	Annex D
S10	MI	2120 Bishop	Annex MI
S11	F	2085 Bishop	Annex F
S12	L	2015 de la Montagne	Shuchat
S13	BC	1463 Bishop	Bishop Court
S14	N	1435 Drummond	Kenneth E. Norris
S15	Y	1441 Drummond	YMCA
S16	C	1440 Ste. Catherine o.	Annex C
S17	VA	1395 Dorchester o.	Fine Arts
S18	MF	1230 de la Montagne	Bourget School
S19	GM	1550 de Maisonneuve o.	Annex GM
S20	CE	1822 de Maisonneuve o.	Victoria School
S20	GY	1822 de Maisonneuve o.	Victoria School
S21	BE	1249 Guy	Centre for Building Studies
S22	AR	2130 Mackay	Annex AR
S23	V	2110 Mackay	Annex V
S24	PR	2100 Mackay	Annex PR
S25	Z	2090 Mackay	Annex Z
S26	X	2080 Mackay	Annex X
S27	EN	2070 Mackay	Annex EN
S28	FA	2060 Mackay	Annex FA
S29	R	2050 Mackay	Annex R
S30	—	2040 Mackay	—

ALPHABETICAL KEY

Annex A	A	1420 Sherbrooke o.	S05
Annex AR	AR	2130 Mackay	S22
Annex B	B	2160 Bishop	S07
Annex C	C	1440 Ste. Catherine o.	S16
Annex CI	CI	2149 Mackay	S04
Annex D	D	2140 Bishop	S09
Annex EN	EN	2070 Mackay	S27
Annex F	F	2085 Bishop	S11
Annex FA	FA	2060 Mackay	S28
Annex GM	GM	1550 de Maisonneuve o.	S19
Annex K	K	2150 Bishop	S08
Annex M	M	2135 Mackay	S02
Annex MI	MI	2120 Bishop	S10
Annex MU	MU	2170 Bishop	S06
Annex PR	PR	2100 Mackay	S24
Annex R	R	2050 Mackay	S29
Annex S	S	2145 Mackay	S03
Annex V	V	2110 Mackay	S23
Annex X	X	2080 Mackay	S26
Annex Z	Z	2090 Mackay	S25
Bishop Court	BC	1463 Bishop	S13
Bourget School	MF	1230 de la Montagne	S18
Centre for Building Studies	BE	1249 Guy	S21
Fine Arts	VA	1395 Dorchester o.	S17
Henry F. Hall	H	1455 de Maisonneuve o.	S01
Kenneth E. Norris	N	1435 Drummond	S14
Shuchat	L	2015 de la Montagne	S12
Victoria School	CE	1822 de Maisonneuve o.	S20
Victoria School	GY	1822 de Maisonneuve o.	S20
YMCA	Y	1441 Drummond	S15
—	—	2040 Mackay	S30

11 Academic Calendar

11 Academic Calendar

The Academic Calendar is subject to change without notice. Effort will be made to publicize revisions.

Regular Session — 1980-1981

1980

MARCH	Saturday, March 1	Last day for applications Full Time Day Regular Session 1980/81.
	Monday, March 3	Course selection (Preregistration) begins. Specific Dates for each faculty to be published at a later date.
	Tuesday, March 4	Last day for applying for late completion for courses ending in December 1979.
APRIL	Tuesday, April 1	Last day for submission of late completion work for courses ending in December 1979.
	Friday, April 4	Good Friday — University closed — no classes.
	Monday, April 7	Easter Monday — University closed — no classes.
	Tuesday, April 8	Last day for classes (Regular Session 1979-80).
	Saturday, April 12	Examinations begin.
	Tuesday, April 29	Examinations end.
MAY	Thursday, May 1	See below for Summer Session 1980 tentative calendar.
JUNE	To be announced	Spring Convocations (June 1 to June 8 — tentative).
	Thursday, June 12	Last day for submission of Preregistration forms — Regular Session 1980/81.
	Friday, June 13	Last day for special and supplemental examination applications for courses taken during the Regular Session 1979/80.
		Last day for applying for late completion for courses ending in April 1980.
JULY	Monday, July 28	Special and supplemental examinations begin — Regular Session 1979/80.
AUGUST	Friday, August 1	Last day for submission of late completion work for courses ending in April 1980.
	Wednesday, August 6	Special and supplemental examinations end — Regular Session 1979/80.
	Tuesday, August 15	Last day for applying for degrees for Fall Convocation 1980.
	Wednesday, August 20	Special course change period for preregistered students begins.
	Thursday, August 21	Special course change period for Preregistered students ends.
	Tuesday, August 26	General Registration begins for non-preregistered students (specific dates to be published in the class schedule).

SEPTEMBER	Monday, September 1	Labour Day — University closed.
	Wednesday, September 3	General Registration ends.
	Monday, September 8	Classes begin — Day and Evening Regular Session.
	Monday, September 8	Regular Course change period begins.
	Friday, September 19	Course change period ends (some Faculties may end course change earlier).
OCTOBER	Wednesday, October 1	Last day for Special and Supplemental examinations applications for courses taken during the Summer Session 1980.
	Wednesday, October 1	Last day for application for late completion for courses taken during the Summer Session 1980.
	Monday, October 13	Thanksgiving Day — University closed — no classes (make-up lectures see December 8th).
	Saturday, October 25	Special and Supplemental examinations for Summer Session 1980.
	Friday, October 31	Last day for academic withdrawal from Fall Term courses.
	Friday, October 31	Last day for submission of late completion work for Summer Session courses 1980.
NOVEMBER	To Be Announced	Fall Convocation.
DECEMBER	Saturday, December 6	Last day of classes — Fall Term.
	Monday, December 8	Make-up day for all classes scheduled on October 13th (Thanksgiving).
	Tuesday, December 9	Examinations begin.
	Tuesday, December 23	Examinations end.

1981

JANUARY	Monday, January 5	Registration and course change period begins for Winter Term courses.
	Thursday, January 8	Classes begin — Winter Term.
	Thursday, January 15	Last day for applying for degrees for Spring Convocation 1981.
	Friday, January 16	Registration and course change period ends. (some Faculties may end course change earlier).
	Friday, January 30	Last day for applications for Fall Term supplemental and special examinations — Graduating Students.
FEBRUARY	Saturday, February 21	Fall Term supplemental and special examinations — Graduating Students.
	Monday, February 23	Reading Day. No classes (make-up lectures see April 9).
	Tuesday, February 24	Reading Day. No classes (make-up lectures see April 10).
	Friday, February 27	Last day for academic withdrawal from two-term courses and Winter Term Courses.
MARCH	Sunday, March 1	Last day for applications Full Time Day Regular Session 1981/82.
	Monday, March 2	Course selection (Preregistration) begins. Specific dates for each faculty to be published at a later date.
	Monday, March 2	Last day for applying for late completion for courses ending in December 1980.

APRIL	Wednesday, April 1	Last day for the submission of late completion work for courses ending in December 1980.
	Wednesday, April 8	Last day for classes (Regular Session 1980-1981).
	Thursday, April 9	Make-up lectures for February 23
	Friday, April 10	Make-up lectures for February 24
	Saturday, April 11	Examinations begin.
	Friday, April 17	Good Friday — University closed.
	Monday, April 20	Easter Monday — University closed.
	Thursday, April 30	Examinations end.
JUNE	To Be Announced	Spring Convocations (between June 7 to June 14 — tentative).

NOTE: For the information of instructors planning assignment deadlines, class tests, etc., and for persons scheduling meeting, the dates of the major Jewish Holy Days for 1980/81 are set out below:

Passover	Tuesday, April 1 and Wednesday April 2, 1980 — Monday April 7 and Tuesday April 8, 1980.
Rosh Hashanah	Thursday, September 11 and Friday September 12, 1980.
Yom Kippur	Saturday, September 20, 1980.
Sukkoth	Thursday, September 25 and Friday, September 26, 1980 — Thursday, October 2 and Friday, October 3, 1980.
Passover	Sunday April 19 and Monday April 20, 1981 — Saturday, April 25 and Sunday April 26, 1981.

Observance of the Holy Day commences on the preceding evening at Sunset.

Ten Week Summer Session — 1980 (Day and Evening Classes)

May	Monday, May 12	Classes begin.
July	Wednesday, July 16 to Tuesday, July 22	Classes end within these six days.
	Wednesday, July 23	Examinations begin.
	Tuesday, July 29	Examinations end.

Six Week Summer Session — 1980 (Day Classes Only)

July	Wednesday, July 2	Classes begin.
August	Tuesday, August 12	Classes end.

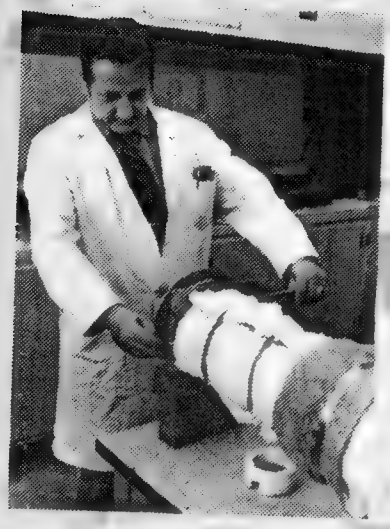
NOTE: This session is a concentrated six week package that includes all class work and examinations within the six week period.

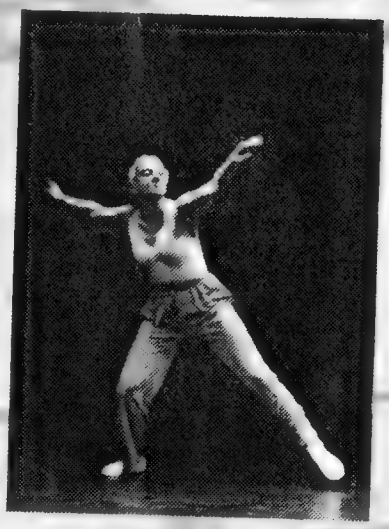
Special Day Timetable for the Faculty of Engineering — 1980

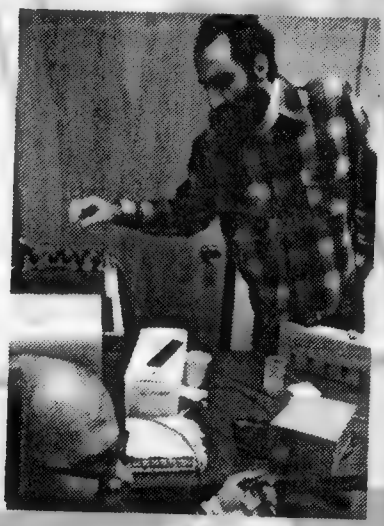
Students who were admitted to the Faculty of Engineering in January 1980 are scheduled to complete the first year of their programme as follows:

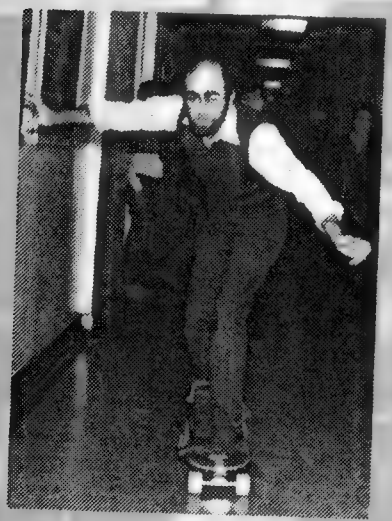
May	Monday, May 12	Classes begin.
August	Friday, August 15	Classes end.
	Monday, August 18	Examinations begin.
	Wednesday, August 21	Examinations end.

NOTE: These classes are for students who registered only as January Entrants. There is no registration into this programme on May 12.

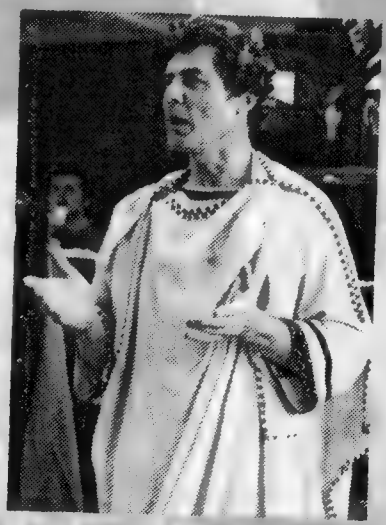








NEGIE HALL



12 Faculty & Administration

12 Faculty and Administration

The following entries are in effect for the 1979-80 Academic year.

12.1 BOARD OF GOVERNORS

H. J. Hemens, *Chancellor*
C. A. Duff, *Chairman*
G. T. Fisher, *Vice-Chairman*
Mrs. B. J. Lande, *Vice-Chairman*
R. P. Duder, *Secretary*
C. Berks
J. Bordan
M. J. Bourgault
R. W. Breen
M. Brian
A. der Khatchadurian
M. S. Dubas, s.j.
L. Francescutti
A. Graham, s.j.
R. L. Grassby
R. K. Groome
H. Habib
K. G. Khatchadourian
N. Leclaire
E. A. Lemieux
D. MacDonald
P. MacDonald
G. Martin
P. M. McEntyre
D. W. McNaughton
J. Miller
M. B. Mulroney
J. W. O'Brien, *Rector*
J. J. Pepper
T. S. Sankar
B. J. Woloshen

12.2 SENATE

J. W. O'Brien, *Chairman*
J. Bordan, *Vice-Chairman*
R. Breen, *Vice-Chairman*
J. Noonan, *Secretary*
G. Adams
N. Anyfantis
J. Bhatnagar
J. Chaikelson
M. Cohen
R. Curnew
J. Y. David
M. Despland
M. E. Diacoumacos
A. Fahim
T. Fancott
M. Farrell
H. Fink
S. French
J. C. Giguere
J. Goodwin
A. Graham
G. Gross
W. Kan
V. Kirpalani
J. A. Kornblatt
A. Lajoie
A. Lauziere
B. Mangat
J. Martin
J. McNiesh
S. Morris
D. O'Connor
S. Paikowsky
A. Pinsky
C. Potter
A. D. Russell
P. Simon
A. Simopoulos
M. Singer
G. Stamatelopoulos
J. Stewart
M. N. S. Swamy
M. Szabo
D. Taddeo
R. Tittler
R. Tobias
C. Torchia
J. Tresierra
G. Trudel
M. Verthuy
R. E. Wall
J. H. Whitelaw
G. D. Xistris
8 additional student members (to be announced)

12.3 COUNCIL OF THE FACULTY OF ARTS AND SCIENCE

J. S. Chaikelson, *Dean Division II, Chairman*
D. Taddeo, *Acting Dean, Division I*
M. Cohen, *Dean, Division III*
R. E. Wall, *Provost, Division IV*
M. Osborne, *Secretary*
M. Armstrong
J. Aaron
B. Barkman
R. Breen, *Vice-Rector, Academic*
M. Brian
R. J. Cannon
C. Campbell
L. Crysler
S. Dubas, s.j.
M. Euvrard
M. Girio
T. Gray
T. Goguen
H. Habib
D. Haccoun

A. Hamalian
B. Honnig
R. Kepes
J. Kornblatt
F. Krantz
K. Kusano
J. Lightstone
J. Macaluso
M. Malik
R. Martin
S. McEvenue
S. Mullet
D. Murphy
C. Nish
J. W. O'Brien, *Rector*
B. Petrie
J. Princz
E. Preston
J. Ryan
B. Sahni
G. P. Sassano
S. Scheinberg
M. Singer
B. Slack
R. Tekel
C. Torchia
G. Trudel
M. Uprichard
1 faculty member (to be announced)
10 student members (to be announced)

12.4 COUNCIL OF THE FACULTY OF COMMERCE AND ADMINISTRATION

P. Simon, *Chairman*
M. Kusy, *Secretary*
K. Adams
A. Anvari
A. Ashour
V. Baba
B. Barbieri
L. Bessner
J. Bordan
R. Curnew
D. Doreen
E. Douglas
D. Emery
P. Filion
Z. Gidengil
J. Goodwin
H. Gram
V. H. Kirpalani
G. Lowenfeld
H. Mann
K. L. McGown
J. W. O'Brien, *Rector*
R. J. Oppenheimer
P. Pasold
B. Queenan
H. Ripstein
R. Wills
2 Finance Department Representatives (to be announced)
2 Graduate Student Representatives (to be announced)
2 Part-time Students (to be announced)
1 Political Science Representative (to be announced)

12.5 COUNCIL OF THE FACULTY OF ENGINEERING

M. N. S. Swamy, *Chairman*
J. C. Giguere, *Secretary*
K. D. Adams
A. Antoniou
B. B. Bhattacharyya
J. Bordan
P. Fazio
P. E. Filion
R. Guy
H. K. Ha
W. G. Habashi
A. M. Hanna
K. I. Krakow
J. F. Lindsay
J. McKay
S. D. Morgera
M. S. Nasser
J. W. O'Brien, *Rector*
M. O. M. Osman
A. D. Russell
T. S. Sankar
O. Sharma
M. S. Troitsky
M. Vidyasagar
G. D. Xistris
Z. A. Zielinski
P. D. Ziogas
4 students (to be announced)

12.6 COUNCIL OF THE FACULTY OF FINE ARTS

A. Pinsky, *Chairman*
K. Adams
J. Bordan
W. Bottenberg
J. Cazalet
P. Cohen
E. F. Cooke
F. Filion
S. Friedland
C. Gabriel-Lacki
G. Gross
E. James
P. Kohler
W. Krol
J. O'Brien, *Rector*
R. Parker
D. Pariser
W. Sanderson
J. I. Smith
R. Staley
P. Svatek
2 part-time instructors (to be announced)
one from the Division of Visual Arts
one from the Division of Performing Arts

4 student members
1 full-time student from the Division of Visual Arts: D. Hardy
1 full-time student from the Division of Performing Arts (to be announced)
1 part-time student from the Division of Visual Arts (to be announced)
1 part-time student from the Division of Performing Arts (to be announced)
1 student from the Division of Graduate Programmes: A. Pringle

12.7 CONCORDIA COUNCIL ON STUDENT LIFE

R. Wills, *Chairman*
A. Riley, *Secretary*
A. Allison
P. Brown
R. Cannon
F. Chee-Choon
A. Connors
B. Counihan
N. Cullen
F. Denton
A. der Khatchadurian
C. Duff
E. Enos
M. Eson
A. Fahim
M. Flynn
R. Gaudet, s.j.
J. Harrison
M. Hernandez
D. Insleay
A. Kunigis
A. Lajoie
J. Landry
N. Light
J. Macaluso
R. Philip
J. Richardson
J. Sproule
B. Williams
R. Wong
2 additional members of the Sir George Williams and Loyola Faculty (to be announced)
1 additional member of the Concordia University Students' Association (to be announced)

12.8 OFFICERS OF THE ADMINISTRATION

RECTOR AND VICE-CHANCELLOR:
John W. O'Brien, PhD, DCL, LLD
ASSOCIATE VICE-RECTOR, ACADEMIC:
J. H. Whitelaw, MA
EXECUTIVE ASSISTANT TO THE RECTOR:
F. Michael Sheldon, MA
SECRETARY, BOARD OF GOVERNORS:
R. P. Duder, MA, DLitt
SECRETARY, SENATE:
John Noonan, BSc
UNIVERSITY DEVELOPMENT OFFICER:
Howard Radford
DIRECTOR OF PUBLIC RELATIONS:
David Allnutt

VICE-RECTOR ACADEMIC:
Jack Bordan, MSc, Eng
ASSOCIATE VICE-RECTOR, RESEARCH:
Michel Despland, ThD
DEAN, COMMERCE AND ADMINISTRATION:
Pierre Simon, PhD
ASSOCIATE DEAN:
G. R. Curnew, MBA, CA
ASSOCIATE DEAN:
R. O. Wills, MBA
DEAN, ENGINEERING:
M. N. S. Swamy, PhD
ASSISTANT DEAN:
J. F. Lindsay, PhD
ASSISTANT DEAN:
J. C. Giguère, PhD
ASSISTANT DEAN:
G. D. Xistris, MEng, DScA

DEAN, FINE ARTS:
A. Pinsky
ASSOCIATE DEAN:
E. F. Cooke, MFA
ASSISTANT DEAN:
G. Gross, MFA
DEAN, GRADUATE STUDIES:
S. G. French, PhD

VICE-RECTOR, ACADEMIC:
Russell Breen, PhD
DEAN, ARTS AND SCIENCE, DIVISION I:
TBA
ASSOCIATE DEAN:
V. Zeman, PhD
DEAN, ARTS AND SCIENCE DIVISION II:
J. Chaikelson, PhD
ASSOCIATE DEAN:
R. Coyte, MA
DEAN, ARTS AND SCIENCE, DIVISION III:
M. Cohen, PhD
ASSOCIATE DEAN:
R. H. Pallen, PhD
PROVOST, ARTS AND SCIENCE, DIVISION IV:
R. E. Wall, PhD
ASSISTANT PROVOST:
M. Singer, MA
ASSISTANT DEANS, ARTS AND SCIENCE, DIVISION I-IV:
M. Baldwin, MSc
T. J. Adley, PhD
E. Enos, EdD
DIRECTOR, CONTINUING EDUCATION:
Douglas Potvin, BA, EdD

VICE-RECTOR, ADMINISTRATION AND FINANCE:
Graham Martin, MSc, Eng
ASSISTANT VICE-RECTOR AND TREASURER:
William M. Reay, CA
ASSISTANT VICE-RECTOR, PHYSICAL RESOURCES:
Jean-Pierre Pétolas, BSc
ASSISTANT VICE-RECTOR, RELATIONS AND AUDIT:
André J. Laprade, BEng
ASSISTANT VICE-RECTOR AND DIRECTOR OF LIBRARIES:
Paul-Emile Filion, s.j., MS, DUL, LLD
UNIVERSITY LEGAL COUSEL:
Jean-Paul Dufour, BA, BComm, BCL
DIRECTOR, COMPUTER CENTRE:
Ivan Fuchs, BSc
DIRECTOR, ANCILLARY SERVICES:
Douglas Devenne, BA
DIRECTOR, AUDIO-VISUAL DEPARTMENT:
Bernard B. Queenan, MA, MEd
DIRECTOR, INSTITUTIONAL RESEARCH OFFICE:
F. Douglas Hamblin, BSc, MSc, FLMechE PEng

DIRECTOR OF PERSONNEL:
John Hall, BSc

VICE-RECTOR AND PRINCIPAL OF LOYOLA CAMPUS:
A. Graham, s.j., MA, STL
ASSISTANT VICE-RECTOR AND UNIVERSITY REGISTRAR:
K. D. Adams, BSc, LMus
ASSISTANT VICE-RECTOR, ADMISSIONS AND LIAISON:
Gerald W. Tait, s.j., PhD
DIRECTOR OF ADMISSIONS, SIR GEORGE WILLIAMS CAMPUS:
T. E. Swift, BA
DIRECTOR OF ADMISSIONS, LOYOLA CAMPUS:
Grendon E. Haines, BA, BPaed
DIRECTOR OF GUIDANCE:
J. A. Sproule, MPsSc
DIRECTOR OF ATHLETICS:
E. Enos, BSc, MEd, EdD
DEAN OF STUDENTS, SIR GEORGE WILLIAMS CAMPUS:
Magnus Flynn, BComm
DEAN OF STUDENTS, LOYOLA CAMPUS:
Brian T. Counihan, BA, MEd

12.9 FACULTY FULL TIME

ACHESON. P., BA *Lond.* MS PhD *Indiana, Assistant Professor of Applied Linguistics*

ADAMS. G., BA MA *Tor.*, PhD *Chic., Associate Professor of History*

ADAMSON, A.H., BA *Manit.*, PhD *Lond., Professor of History*

ADLER, L.S., BA *Sir G. Wms.*, MA *McG., Associate Professor of Mathematics*

ADLEY, T.J., BSc *Sir G. Wms.*, PhD DIC *Lond., Associate Professor of Chemistry*

AHMAD, J., BA *Alig.*, MS *Pitt.*, PhD *M.I.T., Professor of Economics*

AHMAD, M.M., MA *Punj.*, MA Phd *Chic., Associate Professor of Philosophy*

AHSAN, S.M., BA *Dacca*, MA *Essex*, PhD *McM., Associate Professor of Economics*

AIKEN, R.S., BA *Belf.*, MA *McM.*, PhD *Penn., Associate Professor of Geography*

ALAGAR, V.S., BA MSc *Madr.*, MA *N.Y. State*, PhD *McG., Assistant Professor of Computer Science*

ALBERT, P., BSc PhD *New Br., Associate Professor of Biology*

ALLEN, C., BA *Roch.*, PhD *Claremont, Associate Professor of Philosophy*

ALLISON, R.R., BA MA *Calif.*, PhD *Flor. State, Assistant Professor of Fine Arts (Theatre Arts)*

ALVI, S.A., BA MA *Karachi*, PhD *Colorado, Associate Professor of Economics*

AMIT, Z., BA PhD *McG., Professor of Psychology*

ANAND, K.K., BA *Punj.*, MA *Delhi, Associate Professor of Mathematics*

ANASTASOPOULOS, A., BA *Athens*, MA PhD *Roch., Associate Professor of Economics*

ANDERSON, J.M., MA *Dund.*, MSc *Alta., Assistant Professor of Geography*

ANDERSON, P.D., BA MSc *W. Ont.*, PhD *Oregon, Associate Professor of Biology*

ANDRES, D.H., BA MA *Texas*, PhD *Wat., Associate Professor of Psychology*

ANDRUS, D.F.P., BA MA *Tor., Associate Professor of Fine Arts (Art History)*

ANGEL, R.B., MA PhD *McG., Professor of Philosophy*

ANGELL, H.M., BA *Sir G. Wms.*, MA *McG., Associate Professor of Political Science*

ANTOLIN, F., BA *Léon, Spain*, LèsL DèsL *Madrid, Associate Professor of Modern Languages (Spanish)*

ANTONIOU, A., BSc(Eng) PhD *Lond., Professor of Engineering*

ANVARI, M., BEng *McM.*, MBA *C'dia.*, MS PhD *Case Western U., Assistant Professor of Quantitative Methods*

APPELBAUM, S., BS *Temple U.*, MA *St. Jos.*, Phd *Ott., Associate Professor of Management*

ARBUCKLE-MAAG, T.Y., BA *Manit.*, PhD *Tor., Professor of Psychology*

ARMSTRONG, M., BA BEd *Alta.*, MA *McG., Professor of Economics*

ARNOPOULOS, P.J., BSC BA *Sir G. Wms.*, MA *N.Y.*, MA *Col., Associate Professor of Political Science*

ASHOUR, A., BComm *Ein-Shams*, MA PhD *Minn., Associate Professor of Management*

ASHTAKALA, S., BSc *Mad.*, PhD *Tor., Associate Professor of Biology*

ATWOOD, J.W., BEng *McG.*, MASc *Tor.*, PhD *Ill., Associate Professor of Computer Science*

AUBIN, R., BA BSc *Montr.*, PhD *Edin., Assistant Professor of Computer Science*

AUCHINACHIE, G.M., BA *Br. Col.*, Ma *Tor., Associate Professor of English*

AUSTIN, K., BMus MMA *McG., Lecturer in Fine Arts (Music)*

BABA, V.V., BS *Madr.*, MBA *W. Ill.*, PhD *Br. Col., Assistant Professor of Management*

BABARIK, P., BA MA *Tor.*, PhD *Chic., Associate Professor of Psychology*

BAGGHI, S.N., BSc MSc DSc *Calc., Professor of Physics*

BALDWIN, M., BSc MSc *Tas., Assistant Professor of Chemistry*

BANASIK, J., BA *McG.*, MA *Tor.*, MBA *C'dia., Sessional Lecturer in Accountancy*

BARAKETT-BRAND, J., BA *Sir G. Wms.*, MA *McG., Associate Professor of Education*

BARBIERI, B., BA *Montr.*, MBA *Col., Assistant Professor of Marketing*

BARKMAN, B., BA *Middlesbury Coll.*, PhD *Georgetown, Associate Professor of Applied Linguistics*

BARLOW, I.M., BA *Wales*, MA *Cinc., Assistant Professor of Geography*

BARNES, T., BA *Montr.*, MBA *Pitt., Lecturer in Finance*

BARON, L.J., BA *McG.*, MA *Mich. State*, PhD *Tor., Assistant Professor of Education*

BARTON, C.R., BA MA *Yale*, PhD *N.Y., Associate Professor of Classics and Linguistics*

BAUER, J.H., BA *Sir G. Wms.*, MA PhD *Manit., Associate Professor of Psychology*

BAYNE, C.S., MA *Br. Col., Associate Professor of Quantitative Methods*

BECKMAN, C., AA *Stockton Coll., Calif.*, AB MA *Calif.*, PhD *Rutgers, Associate Professor of Biology*

BEDFORD, F.W., BA *Loy. (Montr.)*, BSc *Sir G. Wms.*, MSc *McG., Professor of Mathematics*

BEISSEL, H.E., BPhil *Cologne*, MA *Tor., Professor of English*

BEKIROGLU, H., BS *Wash.*, MS *Calif.*, PhD *Iowa, Associate Professor of Quantitative Methods*

BELCOURT, M., BA *Manit.*, MA *York (Can.)*, MEd *Ott., Lecturer in Management*

BELINSKY, M.M., BSc MSc *McG., Associate Professor of Mathematics*

BELKIN, R., BA *Sir G. Wms.*, MA PhD *Montr., Associate Professor of English*

BELMORE, N., AB *Randolph-Macon*, MS PhD *Georgetown, Professor of Linguistics*

BERGIER, M., MBA PhD *N.Y. State, Assistant Professor of Marketing*

BERNARD, R., BS MS *Tenn.*, PhD *Wash., Assistant Professor of Education*

BERTRAND, C.H., BA *Wash.*, MA *Oregon*, PhD *Wis., Associate Professor of History*

BESSNER, L., BComm LIA *McG.*, CA, *Professor of Accountancy*

BHARGAVA, V.K., BSc MSc PhD *Qu., Associate Professor of Electrical Engineering*

BHATNAGAR, J.K., BSc LLB *Agra*, MA PhD *Lond., Professor of Education*

BHATTACHARYYA, B.B., BTech MTech *Kharagpur*, PhD *N.S.T.C., Professor of Engineering*

BIGELOW, R., BFA *Choinard Art Inst., Assistant Professor of Fine Arts (Studio Art)*

BINDON, K., BA *Sir G. Wms.*, MA *Qu., Lecturer in History*

BIRD, F.B., BA BD *Harv.*, PhD *U.T.S.(N.Y.), Associate Professor of Religion*

BIRD, P.H., BSc PhD *Sheff., Associate Professor of Chemistry*

BLACH, A.E., PEng *Corp. of Engineers*, BSc MEng *Sir G. Wms., Assistant Professor of Mechanical Engineering*

BOBETIC, Rev. M., BSc MSc *Zagreb*, PhD *Wat., Associate Professor of Mathematics*

BODE, F.A., BA *Calif.*, MA PhD *Yale, Associate Professor of History*

BONIN, M., BScComm *H.E.C.*, MBA *W. Ont.*, Dip d'Et Sup *Genève, Lecturer in Accountancy*

BORDAN, J., BEng MSc *McG.*, Eng Que MEIC, *Professor of Engineering*

BOSWALL, M.A., BSc *Dal., Associate Professor of Mathematics*

BOTTENBERG, W., BMus *Edmonton*, MMus DMA *Cinc., Assistant Professor of Fine Arts (Music)*

BOURGUIGNON, F., PhD *W. Ont., Visiting Scholar of Economics*

BOYARSKI, A.J., BEng ME PhD *McG., Associate Professor of Mathematics*

BOYD, G. McL., BSc *Car.*, MSc *Sask.*, PhD *Br. Col., Associate Professor of Education*

BOYLE, L., BA BComm *Montr.*, MA *McG.*, PhD *Maryland, Associate Professor of Finance*

BRANT, C.S., BA *Reed*, MA *Yale*, PhD *Corn., Professor of Anthropology*

BREEN, Rev. R.W., BA BTh STL *Montr.*, MS *Fordham*, PhD *Stras., Associate Professor of Theological Studies*

BRENDER, W.J., BA MSc PhD *McG., Associate Professor of Psychology*

BRESLAW, J.A., BA MA *Camb.*, PhD *Calif., Assistant Professor of Economics*

BRETON, G., BA *Manit.*, MA *Montr.*, PhD *Mich., Associate Professor of Mathematics*

BRIAN, M.A., BA *Tor.*, MA *Bryn-Mawr, Associate Professor of Mathematics*

BRIAN, M., MA *Oxon.*, PhD *Montr., Associate Professor of English*

BRINK, G., BComm *Sir G. Wms.*, MBA *W. Ont., Professor of Management*

BRODY, J., MSc RNDR *Charles, Associate Professor of Mathematics*

BROES, A., BA *Manhattan Coll.*, MA *Col.*, PhD *Pitt., Associate Professor of English*

BROSS, M., BA MA PhD *Manit., Associate Professor of Psychology*

BROWN, D., AB *Xavier*, PhD *Tubingen, Associate Professor of Classics*

BRUNE, A., BA *N.Y.*, MA *Iowa, Associate Professor of English*

BRUNET, J.P., BComm *Montr.*, MBA *Qu., Assistant Professor of Management*

BRUSSEL, E.M., BA *Hobart Coll.*, MA *DePauw (Indiana)*, PhD *New Sch. for Social Research (N.Y.), Associate Professor of Psychology*

BRYANT, R.W.G., MA *Aberd.*, MSc *Lond., Professor of Geography*

BUCKEY, A.G., BSc *Calg.*, MSc *Alta.*, PhD *Br. Col., Associate Professor of Mathematics*

BUCKNER, H.T., BS *Louisville*, MA PhD *Calif., Associate Professor of Sociology*

BUELL, J., BA *Loy. (Montr.)*, MA PhD *Montr., Professor of Communication Studies*

BUI, T.D., BASc *Ott.*, MEng *Car.*, PhD *York, (Can.), Associate Professor of Computer Science*

BUTOVSKY, M., BA *Sir G. Wms.*, MA *McG., Professor of English*

BYERS, V., MSc PhD *McG., Professor of Mathematics*

BYERS, W.P., BSc MSc *McG.*, PhD *Calif., Associate Professor of Mathematics*

CALLIER, P., BA MA *Namur*, PhD *S. Fraser, Lecturer in Political Science*

CARTER, S.I., BA MA *Tor.*, MEd EdD *Mass., Associate Professor of Applied Social Science*

CASEY, Rev. S.C., s.j., BA BPaeD *Manit.*, PhL STL *Imm. Conception*, MA PhD *McG., Associate Professor of Classics*

CATRY-VERRON, M.J., BA *Lille*, MA *Mt. Holyoke, Assistant Professor of Etudes Françaises*

CAWLEY, R., BA *Manit.*, MS *Flor., Assistant Professor of Applied Social Science*

CAZALET, J.T., BA *Brooklyn Coll.*, MFA *Yale, Associate Professor of Fine Arts (Theatre Performance)*

CHAIKELSON, J.S., MA MSc PhD *McG., Associate Professor of Psychology*

CHALK, F.R., BS MS PhD *Wis., Associate Professor of History*

CHAN, K., BA *Alta.*, MA *W. Ont.*, PhD *York, Assistant Professor of Applied Social Science*

CHARALAMBOUS, C., BSc *Sur.*, PhD *McM., Assistant Professor of Electrical Engineering*

CHARLTON, D.E., BSc *Durh.*, PhD *Sask., Associate Professor of Physics*

CHARPENTIER, G., BA LèsL MA *Laval*, DèsL *Sher., Associate Professor of Etudes Françaises*

CHAUBY, Y., BSc *Ban.*, MA PhD *Roch., Assistant Professor of Mathematics*

CHEEK, W., BA *Hamp-Syd. Coll.*, MA *U. of Richmond*, PhD *U. of Virginia, Visiting Professor of History*

CHENG, R.M.H., BSc Eng *H.K.*, MSc *Manc.*, PhD *Birm., Professor of Engineering*

CHODAK, S., MA *Leningrad*, PhD *Warsaw, Professor of Sociology*

CLARK, M., BA *Mt. Holyoke*, MA *Amer. U. Cairo, Lecturer in Sociology and Anthropology*

CLAUS, A., BA *Heidel.*, MA *M.I.T.*, PhD *Tufts, Associate Professor of Quantitative Methods*

CLINCH, H.A., BA MA *Tor., Associate Professor of Geography*

COHEN, G.E., BSc MSc PhD *McG., Associate Professor of Mathematics*

COHEN, M., BSc *McG.*, PhD *Calif., Associate Professor of Mathematics*

COHEN, P.S., BA *Sir G. Wms., Associate Professor of Fine Arts (Music)*

COLDEVIN, G.O., BA BEd *Sask.*, MEd PhD *Wash., Associate Professor of Education*

COLEBROOK, L.D., BSc MSc PhD *Auck., Professor of Chemistry*

COMTOIS, U., *Associate Professor of Fine Arts (Studio Art)*

COOKE, E.F., BA *Tor.*, MFA *Iowa, Professor of Fine Arts (Art History)*

COOLIDGE, R., BA *Harv.*, MA *Calif.*, BLitt *Oxon., Associate Professor of History*

CORBO, V., IngCom *Chile*, PhD *M.I.T., Professor of Economics*

COSTANZO, A., BA *Br. Col.*, MA *Wash., Associate Professor of Modern Languages (Italian)*

COYTE, R., BA MA *Oxon., Associate Professor of Political Science*

CRAWFORD, R.L., BA MA PhD *Yale, Associate Professor of Management*

CRONIN, Rev. R.T., s.j., BA *Montr.*, MSc PhD *Fordham, Associate Professor of Biology*

CROSSMAN, A., BA MA PhD *Penn., Assistant Professor of Fine Arts (Music)*

CRYSLER, R., *Associate Professor of Journalism*

CURNEW, G.R., BComm *Sir G. Wms.*, MBA *Qu.*, CA, *Associate Professor of Finance*

CZARNOCKI, B.D., BA *McM.*, MBA PhD *Wis., Assistant Professor of Sociology*

DANIS, M., BA *Montr.*, MA *Fordham*, LLL *Montr., Associate Professor of Political Science*

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WAGNER, N., BFA *Mt. All.*, MA *C'dia., Assistant Professor of Fine Arts (Art Education)*

WAINWRIGHT, R.B., RCA, DipFA *Van. Sch. of Art, Associate Professor of Fine Arts (Studio Art)*

WALL, R.E., BA *Holy Cross, Mass.*, MA PhD *Yale, Professor of History*

WALTER, D.E., BM MM *Eastman Sch. of Music, Assistant Professor of Fine Arts (Music)*

WALTERS, G.R., BA MFA PhD *Prin., Associate Professor of Fine Arts (Art History)*

WANG, Y.H., BS *National Taiwan*, MBA *N.Y.*, MS *Stan.*, PhD *Ohio State, Associate Professor of Mathematics*

WARDY, B., BEd *Israel*, BA MA *McG., Associate Professor of Classics*

WAREHAM, R.S., BA *R.M.C.*, MA *Mich., Associate Professor of English*

WATERS, K., BA *McG.*, MA *Oxon., Associate Professor of English*

WAUGH, T., BA *W. Ont.*, MFA MPhil *Col., Assistant Professor of Fine Arts (Cinema)*

WEISS, G., BA MBA *McG., Lecturer in Computer Science*

WESOLOWSKY, S., BA *Montr.*, MA PhD *Prin., Associate Professor of Theological Studies*

WEST, D., BSc BA *Acad.*, MA PhD *Tor., Associate Professor of Quantitative Methods*

WEST, M., BA *Sir G. Wms.*, MSc *Springfield*, PhD *Alta., Visiting Assistant Professor of Psychology*

WESTBURY, R.A., BSc PhD *McG., Associate Professor of Chemistry*

WHEELER, D., BSc *Lond.*, FIMA, *Professor of Mathematics*

WHITE, C., BA *Rice*, PhD *Stan., Associate Professor of Psychology*

WHITE, D., BS *Ohio*, MS PhD *Pitt., Associate Professor of Psychology and Education*

WHITE, R., BAgE *Corn.*, MArch *Yale, Assistant Professor of Building Studies*

WHITELAW, J.H., MA *Oxon.*, MA *Montr., Professor of Modern Languages*

WHITTOME, I., DipFA *Van. Sch. of Art, Assistant Professor of Fine Arts (Studio Art)*

WIDDEN, P., BSc *Liv.*, PhD *Calg., Associate Professor of Biology*

WIDDOWS, P.F., MA *Oxon.*, PhD *Chic., Professor of Classics*

WILBUR, R., BA *Mt. All.*, MA *Qu., Professor of History*

WILLIAMS, B., BA *Tor.*, MA *Alta.*, PhD *Car., Associate Professor of Political Science*

WILLS, R.O., BSc *Dal.*, MBA *Windsor, Associate Professor of Quantitative Methods*

WILSON, P., BComm *Sir G. Wms.*, MBA *C'dia.*, RIA, *Lecturer in Management*

WISE, R.A., BA MA *Calif. State*, PhD *McG., Professor of Psychology*

WRIGHT, B., BA MA *S.A., Assistant Professor of Economics*

XISTRIS, G.D., BEng MEng *McG.*, DScA *Ecole Polytechnique*, Eng Que, *Associate Professor of Engineering*

YORKEY, R.C., BA *Yale*, MA EdD *Mich., Professor of Applied Linguistics*

YOUNG, J.W., BSc *Lond.*, MA *Br. Col.*, PhD *McG., Associate Professor of Geography*

ZAKI, M., BSc *Luck.*, MSc *Alig.*, PhD *Montr., Associate Professor of Mathematics*

ZEMAN, V., PhD *Charles U., Associate Professor of Philosophy*

ZIELINSKI, Z.A., Inz MTechSc DTechSc *Politechnika Warszawska*, Eng Que, *Professor of Engineering*

ZIENIUS, R., BSc PhD *McG., Associate Professor of Chemistry*

ZIOGAS, P., BASc MASc PhD *Tor., Assistant Professor of Electrical Engineering*

ZWEIG, J.P., BSc BComm *Sir G. Wms.*, MA *McG.*, PhD *Col., Professor of Psychology*

ZWIRZ, F., BComm *Sir G. Wms.*, CA *McG., Lecturer in Accountancy*

ZWOLINSKI, P.J., MA *Warsaw, Assistant Professor of Fine Arts (Graphics)*

12.10 RESEARCH PROFESSORS

Full-time

ALI, A., BSc *Dacca*, MSc *Islam*, PhD *Windsor*, *Research Assistant Professor of Building Studies*

BHAT, R., BE *Mys.*, MTech PhD *I.I.T. Madras*, *Research Assistant Professor of Mechanical Engineering*

COLLINS, D., BArch *Virginia State*, MSc *Ill.*, *Research Associate Professor of Engineering*

KREPEC, T., MEng DTechSci *Politechnika Warszawska*, *Visiting Research Assistant Professor of Mechanical Engineering*

Part-time

ALLEY, D., BA *Dal.*, MA *Br. Col.*, *Research Associate Professor of Engineering*

PAPAGEORGIOU, A., MD *Sorbonne*, *Research Associate Professor of Psychology*

12.11 LIBRARIANS

APPLEBY, J., BA *Sir G. Wms.*, MLS *McG.*, *Reference Librarian (Vanier)*

BENNETT, J., BA MA *Sir G. Wms.*, MLS *McG.*, *Reference Librarian*

BOUCHER, L., BA *Sir G. Wms.*, BLS *McG.*, *Reference Librarian (Vanier)*

BRUCE, E., BA *Windsor*, BLS *Tor.*, *Non-Print Librarian*

CAMERON, D., BA BLS *McG.*, *Reference Librarian (Norris)*

CARETTA, E., BA *Loy. (Montr.)*, MLS *McG.*, *Cataloguing Librarian*

CARPENTIER, L., BA *Laval*, BLS *Tor.*, MBibl *Montr.*, *Government Publications and Microforms Librarian*

CHENG, J., BMus *Mt. St. Vin.*, BLS *Br. Col.*, MLS *W. Ont.*, *Assistant Director of Libraries, Technical Services*

COHEN, M., BA *McG.*, PhD *Exe.*, MLS *McG.*, *Collections Coordinator*

DOLAN, D., BA BLS *McG.*, *Head, Science Engineering Library*

FARRINGTON, H., BA *Wis.*, MLS *McG.*, *Orientation Librarian*

FILION, P.E., BA *Montr.*, LPh LTh *Imm. Conception*, MSLS *Col.*, DUL *Laval*, LLD *W. Ont.*, *Assistant Vice-Rector and Director of Libraries*

GAMEIRO, M.H., BA MLS *McG.*, *Reference Librarian (Vanier)*

HARRIS, L., BSc MLS *McG.*, *Reference Librarian (SEL)*

HOBBS, K., BSc MLS *McG.*, *Reference Librarian (SEL)*

JIRKOVSKY, Z., Dip Ing Tech *U. Prague*, MLS *McG.*, *Reference Librarian (SEL)*

KALB, S., BA *Sir G. Wms.*, MLS *McG.*, *Head, Derived Cataloguing and Additions*

KATZ, S.B., BA *McM.*, BLS *Tor.*, MLS *McG.*, *Cataloguing Librarian*

MacLAURIN, C., BA MLS *McG.*, *Reference Librarian (Norris)*

MacLELLAND, M., BA *New Br.*, MLS *McG.*, *Systems Librarian*

MASSICOTTE, M., BA *S.U.N.Y. (Plattsburgh)*, MLS *McG.*, *Catalogue Maintenance and Authority Librarian*

OLYNYK, E., BA *Sir G. Wms.*, MLS *McG.*, *Cataloguing Librarian*

ORBACH, M., BA BLS MLS *McG.*, *Reference Librarian (Vanier)*

O'REILLY, S., BA *Marianopolis*, BEd *St. Jos. Teachers Coll.*, *Staff Relations Officer*

OTCHERE, F., BA *Br. Col.*, MLS *McG.*, *Non-Print/Microforms Cataloguing Librarian*

PERRON, H., BA BPh BLS *Ott.*, *Reference Librarian (Vanier)*

PRINCZ, J., BA *Sir G. Wms.*, BLS *McG.*, MA *Montr.*, *Associate Director of Libraries and Head, Reader Services*

RAWLINGS, G., BA *C'dia.*, MLS *McG.*, *Cataloguing Librarian*

ROHRLICK, R., BSc MLS *McG.*, *Head, Norris Library*

RUBINLICHT, L., BA *Sir G. Wms.*, MLS *McG.*, *Head, Cataloguing Department*

SENDEK, I., BA *Marianopolis*, BLS MLS *McG.*, *Head, Loyola Campus Libraries*

SINGER, L., BA MLS *McG.*, MA *Mich.*, *Reference Librarian (Norris)*

SNOWBALL, G.J., BSc *Lond.*, MLS *McG.*, *Head, Administrative Services*

SOMMERVILLE, H., BA *Winn.*, MLS *McG.*, *Reference Librarian (Norris)*

SWANICK, L., BA *Sir G. Wms.*, MLS *McG.*, *Reference Librarian (Norris)*

TALLON, J., BA *Manit.*, MA MLS *W. Ont.*, *Interlibrary Loans Librarian*

WRIGHTSON, R., BA *Qu.*, MLS *W. Ont.*, *Head, Acquisitions Department*

ZEMAN, E., BA *Prague*, MLS *W. Ont.*, *Cataloguing Librarian*

NOTE: The following part-time listings were in effect from September 1978 to September 1979.

12.12 FACULTY PART TIME

ADAMS, K., BSc *Sir G. Wms.*, LMus *McG.*, *Lecturer in Fine Arts (Music)*

ADAMS, R., BA MA *Sir G. Wms.*, *Lecturer in English*

ADAMSON, H., BA *Sir G. Wms.*, MA MBA *C'dia.*, *Lecturer in Management*

ADKINS, D., BA *Sir G. Wms.*, MEd *McG.*, *Lecturer in Applied Social Science*

ADLER, E.R., BComm *C'dia.*, CA *McG.*, *Lecturer in Accountancy*

AHMAD, M.O., BEng *Sir G. Wms.*, DEng *C'dia.*, *Lecturer in Engineering*

AHMAD, N., BA MA *Dacca*, MA *McG.*, PhD *Montr.*, *Lecturer in Economics*

AITKEN, W., BA *Missouri*, MA *McG.*, *Lecturer in English and Fine Arts (Cinema)*

AJZENKOPF, L., BSc *McG.*, MBA *C'dia., Lecturer in Marketing*

ALAM, M., MBA *Amer. U. of Beirut*, CA, *Lecturer in Accountancy*

ALBRIGHT, D., BSc MEd *N. Dakota*, EdD *Indiana, Lecturer in Health Education*

ALLEGRUCCI, A.M., BA *Poitiers, Lecturer in French*

ALLISON, N., AB *Converse Coll.*, MA *Calif. Lecturer in Fine Arts (Theatre Arts)*

ALTSCHUL, S., BA *McG.*, BJ *Car.*, BCL *McG., Lecturer in Political Science*

AMINPOUR, R., BAdmin/Fin *Tehran*, MCompSc *C'dia., Lecturer in Computer Science*

ANDERSON, F., BA MA *C'dia., Lecturer in Engineering*

ANDERSON, M., BSc *Pitt.*, MSc *McG., Lecturer in Mathematics*

ANTOLIN, M.J., BA *Dijon*, MA *Middlebury, Lecturer in French*

ARCHER, G., MA *McG., Lecturer in Economics*

ASKEROW, M., BA *Qu., Lecturer in French*

AUCLAIR, M., Lic *Guadalajara, Lecturer in Modern Languages (Spanish)*

AUSTIN, K., BMus *McG., Lecturer in Fine Arts (Music)*

AYERS, C., BScNut MScNut *Lond., Lecturer in Health Education*

AYMEN-YASSINI, A., BA *Loy. (Montr.)*, MA *McG., Lecturer in Political Science*

BABINSKI, M., MA *Laval, Lecturer in Modern Languages (Spanish)*

BAIN, F., BFA *Rhode I. Sch. of Design, Lecturer in Fine Arts (Studio Art)*

BAKER, V., BFA *C'dia., Lecturer in Fine Arts (Art History)*

BAKONY, E., BA BComm MA *U.B.C., Lecturer in Educational Technology*

BALDWIN, J., BA *Sask., Lecturer in Communication Studies*

BANASKI, J., *Lecturer in Quantitative Methods*

BARCLAY, B., BA *Sir G. Wms.*, BEd *C'dia., Instructor of English as a Second Language*

BARDT, E., BFA DipArtEd *Sir G. Wms., Lecturer in Fine Arts (Art Education)*

BARNDT, D., PhD *Mich. State, Special Lecturer in Applied Social Science*

BARRETT, H., BA MA *Windsor*, PhD *W. Ont., Lecturer in English*

BARRY, F.L., NDD ATD *Lond.*, MA *Sir G. Wms., Lecturer in Fine Arts (Art Education)*

BARSON, A., BA *Santa Clara*, MA *San Francisco State Coll.*, PhD *Miss., Lecturer in English*

BARTH, L.A., DipEng *Graz, Lecturer in Engineering*

BASCONJI, G., BSc *Lond.*, MTM *Sir G. Wms., Lecturer in Mathematics*

BAUNGARTEN, M., BA BSc *C'dia., Lecturer in Health Education*

BAYLIN, R., BA MA *McG., Lecturer in English*

BEAMENT, T., MArtEd *Sir G. Wms., Lecturer in Fine Arts (Studio Art)*

BEAUREGARD, M., BA *U.Q.A.M.*, MA *McG., Lecturer in Classics*

BELENKY, R., BA *Cor.*, PhD *Col., Visiting Professor in Applied Social Science*

BELLE-ISLE, L., BSc *St. F.X.*, MBA *C'dia., Lecturer in Marketing*

BELLERIVE, M., Dip en psychopédagogie *U.Q.A.M., Lecturer in Fine Arts (Studio Art)*

BELOFF, R., BA *Sir G. Wms.*, DipEd *McG., Lecturer in English*

BELTZNER, R., BSc *Acad., Lecturer in Accountancy*

BENOIT, M., BA MA *McG., Lecturer in English*

BERCOVITZ, S., BComm *Sir G. Wms.*, CA, *Lecturer in Accountancy*

BERGER, C., BA *Hunter*, MA PhD *C'dia., Lecturer in Psychology*

BERIAULT, R., BComm *Loy. (Montr.), Lecturer in Accountancy*

BERTRAND, L., BA *Jean Brébeuf, Lecturer in Fine Arts (Theatre Arts)*

BERZINS, I., BA *McG.*, BFA MA *C'dia., Lecturer in Fine Arts (Studio Art)*

BHAT, M.V., BTech *Madr.*, MTech *Kanpur*, PhD *Wat., Lecturer in Computer Science*

BIER, C., BA *Sir G. Wms.*, MSc *Long I.*, PhD *Colorado, Lecturer in Health Education*

BIERMAN, R., BComm MA MBA *McG., Lecturer in Quantitative Methods*

BINET, G., BA *Ott., Lecturer in Educational Technology*

BISSONNETTE, L., BA *Loy. (Montr.)*, MA *C'dia., Lecturer in Sociology*

BLAIR, R., BA MA *C'dia., Lecturer in Psychology*

BLICKER, S., BA *Loy. (Montr.), Lecturer in English*

BLOOMSTONE, B., BHL MA *Hebrew Union Coll., N.Y., Lecturer in Theology*

BOIVIN, J.R, *Lecturer in French*

BOKROSS, A., BA *Sir G. Wms., Lecturer in English*

BORDAN, G., BA *Sir G. Wms.*, MSc *L.S.E., Lecturer in Geography*

BOREK, B., BComm *Sir G. Wms., Lecturer in Finance*

BOUARD, B. de, BA MA *Paris, Lecturer in Etudes Françaises*

BOUCHARD, M., BA *Montr., Lecturer in French*

BOULVA, E., BA *CoXI. Brébeuf*, BCL MBA *McG., Lecturer in Finance*

BOURQUE, A., BA *Sir G. Wms., Lecturer in French*

BOYCHUK, W., BEng *R.M.C.*, MBA *Tor., Lecturer in Finance and Management*

BOZEL, F., BSc MSc PhD *McM., Lecturer in Mathematics*

BRAJTMAN, A., BComm CA *McG., Lecturer in Accountancy*

BRANDL, E., BFA *Laval*, MFA *C'dia., Lecturer in Fine Arts (Studio Art)*

BRASK, P., ExamArt *U. Aarhus, Denmark, Lecturer in English*

BRAULT, D., BA *Loy. (Montr.)*, MA *Cinc.*, DipEd *McG., Lecturer in Classics*

BRODIE, E., BLS *McG., Lecturer in Library Studies*

BROEGE, V., AB *Va3sar*, MA PhD *Bryn Mawr, Lecturer in Classics*

BROWN, G., BSc *Manit.*, PhD *McG., Lecturer in Mathematics*

BROWN, P., *Lecturer in French*

BROWNE, M., BA *Ville Marie Coll.*, MA *C.U.A., Lecturer in English*

BRYANT, C., BA *Manit., Lecturer in Journalism*

BUBALO, A., PhD *Milan, Lecturer in Modern Languages (Italian)*

BUNKER, D., BComm *Sir G. Wms.*, BCL *McG.*, *Lecturer in Management*

BURMAN, K., *Lecturer in Computer Science*

BUSHE, G., BA *C'dia.*, *Lecturer in Management and Applied Social Science*

BUTCHER, T., BLS *Tor.*, *Lecturer in Library Studies*

BYRNES, T., BA *Antioch Coll.*, *Lecturer in English*

CADIEU, P., MA PhD *Calif.*, *Lecturer in Fine Arts (Cinema)*

CALLAN, M., BA *Sir G. Wms.*, MA *Goddard*, *Lecturer in Applied Social Science*

CAMPBELL, N., BA *Sask.*, *Lecturer in Fine Arts (Studio Art)*

CAMPBELL, S., BA *Mass.*, *Lecturer in Health Education*

CANTIN, R., *Lecturer in Fine Arts (Cinema)*

CAPPELLI, P., BC *Mt. All.*, MSc *Springfield*, *Lecturer in Bio-Physical Education*

CARBALLADA, L., BEng *Bilbao*, PhD *C'dia.*, *Lecturer in Engineering*

CARCANAGUES, M.B., Bac *Paris*, LèsSc DES *Sorbonne*, *Lecturer in French*

CARDINAL, C., RN BA MA *Queb.*, *Lecturer in Health Education*

CARDUCCI-SIDORENKO, E., MA *Montr.*, *Lecturer in Modern Languages (Italian)*

CARON, J.A., MSc *Montr.*, *Lecturer, Centre for Interdisciplinary Studies*

CARRELL, N., BA *Texas Tech. U.*, MSLS *N. Texas State U.*, LLB *McG.*, *Lecturer in Marketing*

CARSON, R., BComm MBA *Sir G. Wms.*, *Lecturer in Management*

CARTERON, C., BA *C'dia.*, *Lecturer in French*

CASENAVE, G., BA *MacAlester*, *Lecturer in Fine Arts (Theatre Arts)*

CASS-BEGGS, R., *Lecturer in Fine Arts (Theatre Arts)*

CHACKI, G., BA *McG.*, *Lecturer in English*

CHADWICK, R., BA *San Francisco State Coll.*, MA *Sir G. Wms.*, *Lecturer in Religion*

CHALK, K., BA *Sir G. Wms.*, *Lecturer, Centre for Interdisciplinary Studies*

CHAMBERS, C., BComm *Sir G. Wms.*, MBA *York(Can.)*, CA, *Lecturer in Accountancy*

CHAMPAGNE, D., BA *U.Q.A.M.*, *Lecturer in French*

CHAMPAGNE, M., *Lecturer in French*

CHAN, T., BEng *McG.*, ME *McM.*, *Lecturer in Computer Science*

CHAPDELAINE, A., BA *Laval*, MA *Paris*, *Lecturer in Etudes Françaises*

CHARLESBOIS, J., MLS *McG.*, *Lecturer in Library Studies*

CHENG, T., BComm *Sir G. Wms.*, MBA *C'dia.*, *Lecturer in Accountancy*

CHETAN, A., BComm *B'lore.*, CA, *Lecturer in Accountancy*

CHICKEKIAN, G., BA *Sir G. Wms.*, MA *Ott.*, *Lecturer in Geography*

CHOI, F., BEng *McG.*, MEng *Sir G. Wms.*, MBA *C'dia.*, *Lecturer in Finance*

CHOW, W., BSc MSc *C'dia.*, *Lecturer in Mathematics*

CHVATLOVA, J., BSc *Prague*, MSc *N. Br.*, *Lecturer in Mathematics*

CITRON, J., BSc *Lond.*, MSc *McG.*, *Lecturer in Computer Science*

CLARK, A., *Lecturer in Fine Arts (Theatre Arts)*

CLARKE, D., BComm *Loy. (Montr.)*, CA, *Lecturer in Accountancy*

CLARKE, R., MTM *Sir G. Wms.*, *Lecturer in Mathematics*

CLEMENT, S., BSc *McG.*, MA *S.U.N.Y. (Plattsburg)*, *Lecturer in Management*

COBBOLD, A.M., Dip *Banff Sch. of Fine Arts*, BFA *Vic. B.C.*, *Lecturer in Fine Arts (Studio Art)*

COCHRANE, G., BA *Sir G. Wms.*, BEd MEd EdD *Tor.*, *Lecturer in English*

COCKERTON, D., BA *C'dia.*, *Lecturer in Educational Technology*

COHEN, M., BA MLS *McG.*, PhD *Exe.*, *Lecturer in English*

COLBERT, F., BAA MBA *H.E.C.*, *Lecturer in Marketing*

CONNELLY, J., BA *Leeds*, *Instructor of English as a Second Language and Teaching of English as a Second Language*

CONSTANTIN, B., BSc *St. F.X.*, *Lecturer in Biology*

COOPER, S., BSc *Lond.*, MSc *McG.*, *Lecturer in Mathematics*

CORBEIL, Y., BA MA *Montr.*, *Lecturer in Sociology*

CORVINGTON, J.M., DIA *C'dia.*, *Lecturer in Administration*

COULTER, J., BA *Montr.*, *Lecturer in Library Studies*

COUVES, T., BSc *Alta.*, MBA *W. Ont.*, *Lecturer in Finance*

CRESPIN, F., MA *McG.*, Doct Litt *Paris*, *Lecturer in French*

CRISALLI, A., BSc *Loy. (Montr.)*, MSc *Montr.*, *Lecturer in Qwantitative Methods*

CROLL, J., EdD *Maine*, *Lecturer in Education*

CRUIKSHANK, A., CA *McG.*, *Lecturer in Accountancy*

CRYER, S., BSc *McG.*, *Lecturer in Fine Arts (Art Education)*

CULLEN, N., RN BA *C'dia.*, *Lecturer in Health Education*

CURRAN, J., BA MA *Loy.*, *Chic.*, *Lecturer in Political Science*

CURRAN, P.K., BComm *Loy. (Montr.)*, MBA *C'dia.*, *Lecturer in Marketing*

CUSHING, S., BA *Manc.*, *Lecturer in Quantitative Methods*

DAFOE, J.W., BA *Manit.*, *Lecturer in Journalism*

DAINOW, R., BSc *McG.*, MBA *Mich.*, *Lecturer in Management*

DALBY, S., *Lecturer in Fine Arts (Cinema)*

D'ALLESSIO, M., MA *McG.*, *Lecturer in Modern Languages (Italian)*

DANIELS, R., BComm *C'dia.*, *Lecturer in Quantitative Methods*

DANN, N., BA *Montr.*, *Lecturer in Communication Studies*

DAOUD, E., BSc *Alexandria*, MEng *Car.*, DEng *C'dia.*, *Lecturer in Engineering*

D'APOLLONIA, S., BSc MSc *McG.*, PhD *Lond.*, *Lecturer in Biology*

DARLING, M., BA MA *McG.*, *Lecturer in English*

DARMON, N., PhD *Penn.*, *Lecturer in French*

DAS, S.K., BTelE METelE *Jad.*, MScEng *New Br.*, PhD(Eng) *Jad.*, *Lecturer in Engineering*

DAVIDS, K., *Lecturer in Administration*

DAVIS, G., BA *W. Laur.*, MEd *Tor., Lecturer in Health Education*

DAWSON, T., BMus *Vic. B.C.*, MMus *McG., Lecturer in Fine Arts (Music)*

DE BEAUPRE, M., BA *Car., Lecturer in Management*

DECARIE, P., BA *Loy. (Montr.)*, BComm *C'dia., Lecturer in Management*

DECHENE, M., BA *C'dia.*, BEd *Ont. Teacher Ed. Coll., Hamilton, Lecturer in English*

DECKERT, P., BA *The Amer. U.*, MA *Calif. State*, PhD *S. Calif., Lecturer in Psychology*

DE GAGNE, S., BA *Montr.*, BComm *Sir G. Wms.*, MBA *C'dia., Lecturer in Management*

DeGROOT, O., BA *McG., Instructor of English as a Second Language*

DE LA PLANTE, D.A., MBA *McG.*, BAdm *Ott., Lecturer in Management*

DE LORENZI, M.J., BFA *C'dia., Lecturer in Fine Arts (Studio Art)*

DE MEESTER, A., Dip *St. Lucas Inst., Brussels*, Degree in Fine Arts *Antwerp, Lecturer in Fine Arts (Studio Art)*

DE ROSE, S., BComm *Montr.*, CA, *Lecturer in Accountancy*

DERY, F., BFA *Sir G. Wms., Lecturer in Fine Arts (Studio Art)*

DESAUNETTES, H., MA *Montr., Lecturer in French*

DESLAURIERS, R., BA *U.Q.A.M., Lecturer in Etudes Françaises*

DESMARAIS, A., BSc *Loy. (Montr.), Lecturer in Quantitative Methods*

DESORMEAUX, R., BA *Coll. Ste. Marie*, LScComm *H.E.C.*, MA *McG., Lecturer in Marketing*

DEVINE, I., BA *Sir G. Wms.*, MA *Goddard, Lecturer in Applied Social Science and Management*

DE VRIES, G., BA *Nfld.*, MA *C'dia., Lecturer in Education*

D'GANIGIAN, L., BA *Wales*, MA *Vic., Lecturer in Geography*

DI DOMENICO, J., BSc MTM MSc *Sir G. Wms., Lecturer in Mathematics*

DIEGUEZ, I., BA *C'dia., Lecturer in Modern Languages (Spanish)*

DINSMORE, C., BA *Tor.*, BFA *Sir G. Wms., Lecturer in Fine Arts (Art Education)*

DIONNE, M., BA *Laval, Lecturer in French*

DI TOMASO, F., BComm *Loy. (Montr.)*, CA, *Lecturer in Accountancy*

DIXON, J.F.C., BSc MSc PhD *McG., Lecturer in Chemistry*

DO, Q.-T., BA *Saigon*, MBA *C'dia., Lecturer in Finance*

DOBSON, N., BSc *Manit.*, MTM *Sir G. Wms., Lecturer in Mathematics*

DOBSON, W., BSc *U.B.C.*, MPA BM *Harv.*, PhD *Prin., Lecturer in Economics*

DOERR, K., MA *McG., Lecturer in Modern Languages (German)*

DONALD, A., BSc *Loy. (Montr.)*, MA *Syr., Lecturer in Fine Arts (Theatre Arts)*

DOW, M., BA *Sir G. Wms., Lecturer in English*

DOW, S., BA *Mt. All.*, MA *Dal., Lecturer in Finance*

DRANOV, M., BSc *McG.*, BComm MBA *Sir G. Wms., Lecturer in Accountancy*

DRUPALS, G., BEng MBA *McG., Lecturer in Finance*

DRYE, E., MA *Montr., Lecturer in French*

DUBE, L., BS *Agra*, MSc *Benares*, MA *Memorial*, PhD *Car., Lecturer in Mathematics*

DUBOIS, S., *Lecturer in Biology*

DUBUC, L., BA BSc *Montr.*, Dip Ling *Ecole H.E. Paris, Lecturer in Education*

DUCHESNEAU, J., BA *Loy. (Montr.), Lecturer in French*

DUCKWORTH, M., BA *Yale*, MA *Tor., Lecturer in Fine Arts (Cinema)*

DUDER, R.P., BA *McG.*, MA *Oxon.*, AM *Harv.*, DLitt *Nfld., Lecturer in English*

DUFRESNE, B., BA *McG., Lecturer in Journalism*

DUNCAN, D., MLS *McG., Lecturer in Library Studies*

DUPONT, C., BA MA *Sir G. Wms., Lecturer in Fine Arts (Studio Art)*

EARLY, F., BA *Flor.*, MA *Sir G. Wms., Lecturer in History*

EHRLICH-LIPP, S., MA *Boston, Lecturer in Modern Languages (Spanish)*

EL ATTAR, R., MA *McG., Lecturer in French*

EL-ATTAR, R., BSc *Alexandria*, DEng *C'dia., Lecturer in Engineering*

ELBAZ, F., PhD *Tor., Lecturer in Early Childhood Education*

ELIOSOFF, D., BSc *McG.*, MBA *C'dia., Lecturer in Quantitative Methods*

ELLISON, J., *Lecturer in Fine Arts (Music)*

ENTUS, E., BSc MTM *Sir G. Wms., Lecturer in Mathematics*

ERLICH, H., *Lecturer in Political Science*

EVANS, G., BA *N.Y. State*, MA PhD *McG., Lecturer in Fine Arts (Cinema)*

FAINARU, J., MA *Sir G. Wms., Lecturer in Fine Arts (Studio Art)*

FALSETTO, M., BA *Car.*, MA *N.Y., Lecturer in Fine Arts (Cinema)*

FANIZZI, I., BComm *Loy. (Montr.)*, MBA *Sir G. Wms., Lecturer in Management*

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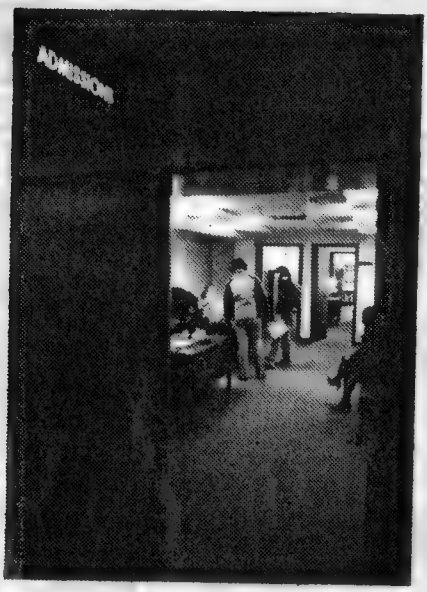
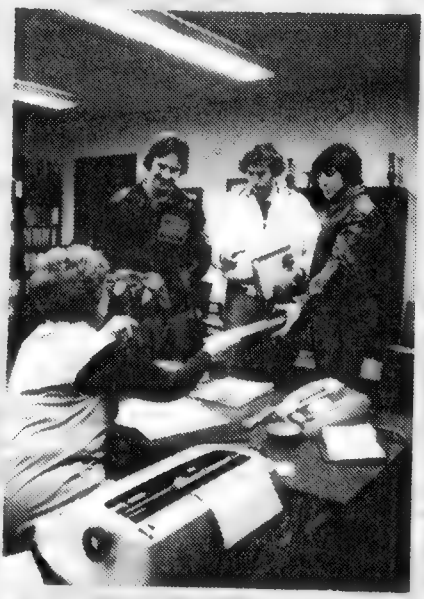

ADMISSIONS



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13.1 Admission to Concordia University

Assistant Vice-Rector, Admissions & Liaison
DR. G. W. TAIT, S. J.

Admissions Office
Loyola Campus
GRENDON E. HAINES
Director of Admissions
INEZ McASEY
Assistant Director of Admissions
BRUCE MacKENZIE
Admissions Officer and Calendar Co-ordinator
MAUREEN JONES
Admissions Officer
JEAN MINEAU
Admissions Officer
RICHARD PINK
Admissions Officer

Admissions Office
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Director of Admissions
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SALLY ANDERSON
Admissions Officer
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Montreal

Liaison Office
Concordia University
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The University maintains admissions offices on both of its campuses, and candidates should apply to the campus where they propose to study. The offices will provide application forms as well as information about required documentation, procedures, etc.

In a small number of programmes the places are limited. Qualified applicants not admitted to their preferred programme will be considered for their second choice. If this involves a change of Faculty or campus, they will be so informed immediately.

Applicants who wish to change Faculty or campus should contact the admissions office where they filed their application; they are not required to complete a second form.

13.2 Definitions

1) *The University year:* The University year is made up of a *Regular Session* and a *Summer Session.* The Regular Session is made up of a *Fall Term* (September-December) and a *Winter Term* (January-April). The Summer Session is made up of a *Ten-week term* (May-July) and a *Six-week term* (July-mid-August).

2) *Undergraduates:* Students registered in a degree or certificate programme, whether on a full-time or part-time basis. *Full-time* students are registered for 24 credits or more in the Regular Session (or 12 credits or more in either of the Fall and Winter terms); *part-time* students are registered for less than 24 credits in the Regular Session (or less than 12 credits in either of the Fall or Winter terms).

3) *Certificate students:* Students registered in a certificate programme, whether on a full-time or part-time basis, which may provide undergraduate standing.

4) *Mature students:* Undergraduates who have not met the regular academic admission requirements, but have been admitted on the basis of age, experience and potential (see Section 14). Mature students may study on a full-time or on a part-time basis.

5) *Special students:* Students taking courses for a specific purpose other than that of obtaining a degree or certificate (see Section 13.9)

6) *Independent students:* Students not seeking a degree or certificate, but who have been admitted to individual courses (see Section 13.10)

7) *Residence requirement:* The minimum number of credits which must be taken at Concordia University to obtain a degree or certificate awarded by the University (see Section 16.1.5).

13.3 Faculties and Degrees

FACULTY of ARTS and SCIENCE — Section 31

Bachelor of Arts (B.A.)
Bachelor of Education (B.Ed.)
Bachelor of Science (B.Sc.)

FACULTY OF COMMERCE and ADMINISTRATION — Section 61

Bachelor of Administration (B.Admin.)
Bachelor of Commerce (B.Comm.)

FACULTY OF ENGINEERING — Section 71

Bachelor of Computer Science (B.Comp.Sc.)
Bachelor of Engineering (B.Eng.)

FACULTY OF FINE ARTS — Section 81

Bachelor of Fine Arts (B.F.A.)

Bachelor's degrees, other than the Bachelor of Engineering, normally require successful completion of 90 credits, or 120 in the case of extended programmes (Mature Student Programme, etc.) (See Section 16.1.2 for the definition of credit.) For students registered full-time, 30 credits constitute the normal workload in the Regular (Fall/Winter) Session. The degree of Bachelor of Engineering, however, requires from 105 to 130 credits of students having a Diploma of Collegial Studies (DEC) or the equivalent with the appropriate prerequisites ("profil"). The number of credits varies according to the option chosen and the previous preparation of the student.

13.4 Admission Requirements

13.4.1 APPLICANTS FROM QUEBEC INSTITUTIONS

Successful completion of a two-year preuniversity programme in a CEGEP, with the award of a Diploma of Collegial Studies (DEC) (or the equivalent), including the specific courses required by the various programmes ("profil"). These "profils" are listed in the Department of Education booklet "Accueil 80 — Structures d'accueil aux études universitaires de premier cycle pour septembre 80." For the convenience of applicants, requirements are listed in the various Faculty sections of this calendar. Applicants who have completed a professional programme in a CEGEP are also admissible to the University.

Students admitted to a particular programme at the University and who subsequently wish to change to another programme may have to complete specific prerequisites in addition to their regular programme requirements.

13.4.2 APPLICANTS FROM OTHER CANADIAN PROVINCES

Ontario Grade 13 graduates with a minimum overall average of 65% in appropriate subjects may be admitted to a 90-credit programme, but applicants for admission to the Bachelor of Engineering degree, or the Bachelor of Computer Science degree (Digital Systems, General Science or Mathematics options) will in general require four years of full-time study to obtain their degree. Applicants from other Canadian provinces who have completed Grade 12 with an overall average of at least 65% in appropriate subjects, or the Junior Division at Memorial University, Newfoundland, will be considered for admission to an extended programme, normally requiring 30 additional credits.

While the university is flexible regarding entrance papers and no set pattern of high school courses is required, the courses presented should be appropriate for the Faculty to which application has been made.

13.4.3 TRANSFERS FROM OTHER UNIVERSITIES

Applicants transferring from other accredited universities will be considered for an appropriate level of placement within the undergraduate programme at this University. For example, one year of undergraduate study following Grade 12 will normally qualify an applicant for entrance to the first year of a 90-credit degree programme. One year of study completed in an Ontario university following Grade 13 will, in general, qualify an applicant for admission to the second year of a 90-credit programme. (For Engineering see Section 13.3). There are some special conditions attached to the granting of transfer credits.

The number of credits awarded depends on the character, quality and quantity of the work completed. An applicant who has attended another university and wishes to transfer to an undergraduate programme at Concordia should understand the following conditions:

1) A student will not be given credit for courses taken in another university during the same academic term in which he has registered for courses at Concordia University, unless special permission has been obtained in advance from this University. The Admissions Office should be contacted for information on the correct procedure.
2) Any student currently registered at this University, and who wishes to take a course at another university during a different academic term — for example, the Summer — must get prior approval. The Admissions Office should be contacted for information on the correct procedure.
3) A student may not apply transfer credits towards the residence requirement at the University unless special permission has been obtained from the appropriate Faculty Council.

13.4.4 TRANSFERS FROM OTHER POST-SECONDARY INSTITUTIONS

Credits obtained in junior colleges, community colleges or Colleges of Applied Arts and Technology outside Quebec will in general be given the same recognition towards undergraduate programmes as they would receive in their respective province.

13.4.5 APPLICANTS FROM OUTSIDE CANADA

Applicants from institutions outside Canada are referred to Section 13.11.

13.5 Application For Admission

It is recommended that application for admission be made as early as possible on forms provided by the Admissions Office. Academic certificates and other supporting documents not available at the time of application must be submitted as soon as they become available. Applicants are advised to apply early in order to allow sufficient time for evaluation and review of their application by the Admissions Office. Final dates for the receipt of applications may be obtained by contacting the Admissions Office.

13.5.1 APPLICATION FEE

There is an application fee of $15.00 for those who are not Canadian citizens or permanent residents (including landed immigrants). This fee will be applied towards the tuition fees upon registration.

13.5.2 ENTRY DATES

Full-time and part-time studies may be begun in September, January or in the Summer Session. In some cases, entry in January may require the completion of courses in the subsequent Summer Session.

13.5.3 JANUARY ADMISSION

New students are admitted in January where places are available. Admission in January has been introduced primarily to accommodate December graduates of Quebec CEGEPs, but is not restricted to this group.

The normal course load in the Winter term (January to April) is 15 credits. Up to 12 credits may be taken in the Summer Session. In some cases (e.g. Engineering), January entrants are required to take summer courses.

13.5.4 ADMISSION DEPOSIT

Applicants who have been granted admission to full-time studies are required to submit a cheque or money order for $25.00 (Canadian) to confirm their intention to enter the University. This admission deposit is non-refundable, but will be applied towards tuition fees at the University.

Applicants who receive an early conditional acceptance, but who are subsequently refused admission because they have not completed the minimum academic requirements for entrance, will have their admission deposit refunded.

13.6 Criteria for Admission

13.6.1 TRANSCRIPTS

Two official copies of each transcript, in English or in French, must be forwarded directly to the appropriate Admissions Office by the institution which the applicant previously attended or at which the applicant is currently registered. In the latter case, the results of previous semesters together with a list of the courses in which the applicant is currently registered, must be submitted immediately. An official transcript which includes the results of the final semester must be forwarded as soon as possible.

Although an applicant's records from several universities may be summarized on one transcript, an application will not be considered until two official transcripts from each institution attended have been received.

These are required even though no credit may have been earned.

13.6.2 CEGEP TRANSCRIPTS (New Procedures)

1) **Applicants for Summer and Fall Terms**
   a. *Mid-Year Transcripts*
      In the case of applicants currently enrolled in a CEGEP (Collège d'Enseignement Général et Professionnel) who are applying for the Summer or Fall Term the University will obtain their most recent CEGEP record of

study (the results of the previous semesters together with a list of courses being followed during the final semester) from the Computer Centre of the Ministry of Education. The CEGEP records will be acquired on one of several scheduled dates between mid-February and early April. Applicants should therefore complete the application forms as early as possible in order to avoid delay in the transfer of the CEGEP record. The "code permanent", which is the educational code number for Quebec students, must be correctly entered on the application form as this identification number is used to obtain the CEGEP transcript. A copy of the computerized CEGEP record will be issued by the University to the applicant for verification.

All applicants should submit, at the time of application, or as soon thereafter as possible, a student copy of their CEGEP transcript. This transcript should show their record to date including grades for all courses followed during the Fall Term. In addition, there should be an accompanying list of 'in progress' courses. Applicants are responsible for ensuring that the student copy is both accurate and complete.

b. *Final Transcripts*
Final transcripts are required by the Admissions Office as soon as they become available.

Former CEGEP students who are not attending CEGEP because they have graduated or have discontinued their CEGEP studies must arrange for their former CEGEP to send the transcript of their grades directly to the University.

2) **Applicants for the Winter Term (January Admission)**

Applicants for the Winter Term (January Admission) must arrange for their CEGEP to send the transcript of their grades directly to the University. The applicant is personally responsible for ensuring that the transcript is requested from and submitted by the CEGEP.

13.6.3 ENGLISH LANGUAGE PROFICIENCY

The language of instruction at Concordia University is English, although examinations and assignments may be written in French, the language of the majority in Quebec.

Applicants whose first language is neither English nor French must demonstrate their proficiency in English. Although the educational systems of many countries conduct their schooling mainly in English, the University reserves the right to require any applicant to demonstrate proficiency in the English language as a criterion for admission to the University.

For those applicants who are required to demonstrate their language proficiency, there are several methods of doing so:

1) *Test of English as a Foreign Language (TOEFL)*

This test is administered at centres in most countries of the world. It is the responsibility of the applicant to write directly to the address listed below for the necessary application forms and information.

Test of English as a Foreign Language
Educational Testing Service
Box 899
Princeton, New Jersey 08540, U.S.A.

2) *The University of Michigan English Language Test*

This test is administered on an individual basis to applicants in most countries of the world. It is the responsibility of the applicant to write directly to the address listed below for necessary application forms and information.

English Language Institute
Testing and Certification
The University of Michigan
2011B North University Bldg.
Ann Arbor, Michigan 48109, U.S.A.

Reporting of TOEFL and University of Michigan Test Results

a. The results must be reported directly to the Admissions Office by the TOEFL or University of Michigan Test Centre. Candidate copies of results or results that are more than two years old will not be acceptable as proof of language proficiency.

b. Inasmuch as an application will not be considered before the test results have been received, applicants should contact the TOEFL or University of Michigan Test Centres as soon as possible in order that the date of receipt of test results does not delay or prevent consideration of their application.

The aforementioned tests are designed for applicants residing outside Montreal.

3) *Concordia English Language Diagnostic Test*

(available only to applicants applying from within the Montreal area)

a. Persons applying from within the Montreal area who are required to write an English language test will automatically be scheduled to sit the Concordia English Language Diagnostic Test upon making application to the University.

b. An application will not be considered complete until these test results are received.

c. Canadian applicants whose first language is French are not required to write this test but may do so for placement.

4) *General Certificate of Education*

An Ordinary Level pass in English Language will satisfy language proficiency requirements.

13.7 Selection Process and Notification

Admission to undergraduate studies is based on a careful review of all credentials presented on behalf of a candidate. An application for admission is not given final consideration until all the required items have been submitted. However, the University does have an early conditional admission plan. The University reserves the right to refuse admission to or registration in a particular programme even when the stated requirements for entrance have been satisfied.

13.7.1 EARLY CONDITIONAL ADMISSION

Applicants seeking admission to undergraduate programmes may be granted conditional acceptance on the basis of former records of study, which should include mid-year results for the current year. Final admission is contingent upon successful completion of the final semester of study and satisfaction of the prescribed academic admission requirements. Candidates granted early conditional admission are in general notified before May 15.

13.7.2 LIMITED ENROLMENT

In some programmes the number of qualified applicants may exceed the number of places available. Possession of the stated requirements does not in itself guarantee admission to a particular programme.

13.8 Admission as a Mature Student

Information on the admission of Mature Students will be found in Section 14.2

13.9 Registration as a Special Student

Persons in the categories listed below may become Special Students. As such, they are charged the same tuition fees as degree students and have the same priority at registration. Such persons should contact the Registrar's Services Department.

1) Students currently registered in certain certificate programmes sponsored by external associations and taking courses in the Faculty of Commerce and Administration. Documentation: proof of membership in the association.
2) Undergraduate students from other universities who have written approval from their home university to take courses at Concordia University. Documentation: a letter from the Registrar of the home university.
3) Students qualifying for entry to another institution (e.g. preparation for graduate studies at another university). Documentation: a letter from the Registrar of the institution, or a letter from the appropriate Admissions Office of Concordia University.
4) Students pursuing further studies who have completed at least a bachelor's degree, whether at Concordia University or at another institution. Documentation: a transcript of grades or a copy of the diploma. The transcript must be shown at registration as proof of completion of prerequisite courses.
5) Persons whose applications are at present with the Admissions Office and who have been advised to register temporarily as Special Students. Documentation: a letter from the appropriate Admissions Office.

13.10 Registration as an Independent Student

Persons wishing to take individual courses without committing themselves to a degree or certificate programme may register as Independent students. They should obtain an appointment card for registration from the Registrar's Services Department. They should bring with them proof of having met university entrance requirements. There are two categories of Independent students:

1) those who satisfy the university admission requirements regardless of their age.
2) those who do not meet the stated admission requirements but who will be at least twenty-one years of age in the course of the calendar year in which they wish to begin their studies, and who can satisfy the registering officer that they have, through other experiences, acquired the necessary background for the course(s) for which they wish to register.

Priority at registration is given to students registered in degree or certificate programmes.

Independent students wishing subsequently to enter a degree or certificate programme must apply to the Admissions Office. Credits acquired by Independent students may subsequently be applied towards a degree or certificate if appropriate. In the case of the Faculty of Arts and Science an Independent student may apply a maximum of 30 credits towards a degree.

Independent students may not register on a full-time basis. Please refer to Section 16 for those regulations which apply to Independent students.

13.11 Information of Special Interest To International Students

13.11.1 APPLICATION FEE

International applicants must include a $15.00 (Canadian) application fee. This amount will be applied towards their tuition fees upon registration for courses at the University.

13.11.2 STUDENT AUTHORIZATION

The new Canadian Immigration regulations require that an International student obtain a student authorization (previously: student visa) before arriving at the Canadian port of entry. Such an authorization will not be issued at the port of entry or to foreign visitors who are already in the country. The authorization will be specific with regard to both institution and programme.

In addition, all students in possession of a letter of admission issued by any Quebec educational institution on or after June 5, 1978 are required to present to the Canadian Immigration an additional document issued by the Quebec Department of Immigration (MIQ) and entitled "Certificat d'acceptation". A Quebec-bound student will not be issued a Student Authorization unless he or she is in possession of the Certificate or other document indicating approval from the Quebec Department of Immigration. The student copy of the Certificate should be retained by the student.

Application forms and instructions for obtaining the "Certificat d'acceptation" are issued with the letters of admission.

13.11.3 UNITED KINGDOM AND COMMONWEALTH

In order to be considered for admission into a 90-credit undergraduate programme, applicants must present five General Certificate of Education papers including at least two at the Advanced Level. The following indicates by degree, which Advanced Level papers are required.

BAdim, BComm, BEng, BSc
— Mathematics and one other acceptable Advanced Level paper

BA, BEd, BFA
— Any two acceptable Advanced Level papers

BCompSc
Digital Systems
— Mathematics and Physics

General Business
— Mathematics and any other acceptable Advanced Level paper

General Science
— Mathematics and Physics

Mathematics
— Mathematics and Physics

Ordinary and Higher National Certificates and Diplomas with passes at an appropriate level may be accepted in lieu of Advanced Level papers.

Applicants from Hong Kong who have received the Hong Kong Certificate of Education (English) with good grades in five subjects and have completed one year of Form VI or hold the Hong Kong Certificate of Education (Chinese) with good grades in five subjects, and have passed the Chinese University of Hong Kong Matriculation Examination, may apply for admission to an extended undergraduate programme.

Applicants to an extended undergraduate programme in Engineering or Science are normally expected to have Mathematics and at least one Science subject; those applying to Commerce and Administration are advised to have Mathematics as part of their entrance qualifications.

Students with better than average results in five acceptable Ordinary Level papers (or the West African School Certificate, where applicable) plus one full year of formal schooling beyond Ordinary Level may be considered for admission to an extended undergraduate programme.

13.11.4 UNITED STATES

High School graduates with high standards from accredited schools who have followed an academic programme designed for university entrance may apply for admission to an extended undergraduate programme of approximately 120 credits. Applicants are required to have a better than average school record and a high ranking in their graduating class. While no set pattern of courses in high school is required, all applicants are expected to have taken four units of English. Those applying for admission to Science and Engineering must include three or four units in Mathematics and two in the Sciences. At least three units of Mathematics are recommended for admission to Commerce and Administration. The Admissions Office may approve slight deviations from the above pattern.

Students who have successfully passed Advanced Placement examinations in appropriate subjects with a grade of '3' or better may be granted some advanced standing.

13.11.5 TRANSFERS FROM POST-SECONDARY INSTITUTIONS

Transfers from post-secondary institutions are referred to Section 13.4.3

13.11.6 OTHER COUNTRIES

The following national certificates are recognized as suitable qualifications for making application to the University provided that better than average grades have been attained. In most cases, a specific minimum overall standard on the certificate is required. More specific information with respect to admission requirements and placement levels may be obtained by writing to the Admissions Office.

Country	Certificate
Arab Republic of Egypt	General Secondary School Certificate
Argentina	Bachillerato Universitario
Australia	Higher School Certificate or University Matriculation Certification
Bahrain	Secondary School Certificate
Belgium	Certificat d'Humanités
Czechoslovakia	Vysvedceni o Maturitni Zkousce
France	Baccalauréat (2ième partie)
Germany	Zeugnis der Reife
Greece	Apolyterion
India	Intermediate Certificate or First Year of Three year B.A., B.Sc., B. Com. (with Class I or Class II or First or Second Division standing).
Iran	Sixth Year Secondary Education Certificate
Israel	Matriculation Certificate
Italy	Diploma di Maturita Classica Diploma di Maturita Scientifica
Kuwait	Secondary School Certificate
Lebanon	Lebanese Baccalauréat (2ième partie)
The Netherlands	Getuigschrift (Gymnasium or Lyceum)
Norway	Examen Artium
Pakistan	Intermediate or Higher Secondary School Certificate (with First or Second Division standing)
Poland	Swiadlectwo Dojrzalosci
Qatar	General Secondary Education Certificate
Vietnam	Vietnamese Baccalauréat (2ième partie)
Yugoslavia	Chegoranctbo or Svedocanstvo

Students accepted in an extended undergraduate programme must normally complete an additional 30 credits.

13.11.7 ENGLISH LANGUAGE REQUIREMENT

The language of instruction at Concordia University is English. For information regarding this requirement refer to Section 13.6.3.

13.11.8 TUITION FEES FOR INTERNATIONAL STUDENTS

International students first registering at Concordia University in September 1978 or later will be required to pay $50.00 (Canadian) per credit. The fees payable to the University for the regular session of two terms running from September to April are approximately $1,900 for a full-time student. This amount includes the tuition fees for 30 credits, student service fees, health insurance, and student association fees. The total amount will vary up or down by an amount of about $53.00 per credit depending on the course load of the individual student. Further information regarding fees can be found in Section 15 of this calendar.

13.11.9 CRITERIA FOR ADMISSION

Admission to Concordia University is selective and will be considered when all relevant academic certificates have been received, as well as the Summary of Educational Experience by Years form.

All certificates must show the actual grade obtained in each examination. Refer to Section 13.6 for further information.

13.11.10 REGISTRATION

Registration for the September and January terms normally takes place in late August and mid-December respectively. Late registration is permitted during the course change period which normally is held during the first two weeks of classes. Students are encouraged, whenever possible, to enrol on the dates indicated in their letter of acceptance. Complete information is sent with the letter of acceptance.

13.11.11 STUDENT HEALTH & ACCIDENT INSURANCE

International students are not eligible to receive any medical benefits from the Quebec Medicare Programme. To offset medical expenditure, it is necessary to have some form of sickness and accident insurance, and for this reason, a compulsory plan for all entering out-of-country students has been adopted by the University.

13.11.12 FINANCES

Government financial assistance is not available to students attending college or university while on a student visa. Such students are not allowed to be employed on a full-time or part-time basis, and they must present evidence of sufficient funds for tuition and maintenance before being admitted into Canada. The University does not have funds to finance International Students.

13.12 Application Requirements

Candidates should apply for admission as early as possible, and make sure that supporting documents are sent in as soon as they are available. Arrangements should be made with the institution concerned to forward directly any CEGEP or university transcripts. Where it is required, applicants will provide a copy of their High School Leaving Certificate with a certified list of the final marks in each subject. (A clear photocopy is acceptable). Applicants who submit a certificate in a language other than English or French should attach a notarized translation into either English or French. If the certificate does not detail the subjects taken and the grades achieved, a certified statement of these from an authorized official of the institution should also be appended.

14 Mature Student Programmes

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14.1 Mature Student Programme General Information

Concordia has for many years offered a Mature Student Programme designed to enable men and women of 21 years of age and over to complete a university degree even though they lack the normally required pre-university schooling. There is also a modified programme for those who are 25 years of age or older. Mature students are expected to demonstrate the potential to follow undergraduate courses, and the programme, itself, concentrates on the knowledge and skills they will need to deal successfully with their chosen course of study.

While students who enter the University through the Mature Student Programme have to complete more credits than are required of those who have their Diploma of Collegial Studies (DEC), they are in every way considered, and treated, as undergraduates.

The Faculty of Arts and Science maintains a Mature Students Centre with offices on each campus to advise and assist both prospective and enrolled students in dealing with academic requirements and other problems (See Section 31.110.)

14.2 Admission to the Mature Student Programme

The following qualifications are required for acceptance as a mature student:

1) at least 21 years of age in the calendar year of propsed entry into the University;
2) while not meeting the normal academic requirements for admission (DEC or equivalent), possession of the potential to follow undergraduate courses;
3) having been out of school — not engaged in full time study — for 24 months since the age of 18, or having been out of school — not engaged in full time study — for 12 months with no unfavourable academic record in the past 24 months.

Applicants must submit a birth certificate or other acceptable proof of age, together with schooling records and any material that may indicate an ability to pursue university studies. (Section 13.12 provides general information about how to apply for admission).

Students who are over 21 but under 25 years of age normally have to complete 30 additional credits before they are accepted into their field of specialization or concentration. If these credits prove part of the particular degree programme, students will have to take an equivalent number of approved elective credits. Students who enter at 25 years of age or over are normally required to take 18 additional credits for a B.A., B.Ed., B.F.A., B.Admin. or B.Comm., while the requirements for a B.Sc., B.Eng. or B.Comp.Sc. will be determined in consultation with the appropriate Faculty.

Mature students who become 25 before completing their 30 credits have the option of transferring to the modified programme.

14.3 Structure of Studies— Mature Student Programme (Under 25 Years of Age)

M S P

For students in the Mature Student Programme, the additional credits are either specified as prerequisites, or otherwise determined by each individual Faculty. These additional credits may not be counted towards the student's eventual programme of specialization. Since a small number of programmes are subject to enrolment restrictions, the University cannot guarantee a student acceptance into a given programme of specialization of the student's choice on completion of the additional credits.

The additional credits will be made up of required courses and electives, these requirements being as follows:

14.3.1 PRE-ARTS

Students must consult with the Director of the Centre for Mature Students before registering.

General Requirements:

6 credits in English
24 credits in consultation with the Centre for Mature Students, of which a maximum of 12 credits may be outside the Faculty of Arts and Science
30

Specific Requirements:

Certain departments in the Faculty have specific requirements. Students intending to follow programmes of concentration within these departments must include the speci-

fied components as part of their Pre-Arts programme.

Geography: students intending to enter BA Honours or Specialization programme in Physical Geography are advised to take 6 credits in Mathematics.

Mathematics: 9 credits in Mathematics — C203[3], C204[3], C205[3]

Psychology: 6 credits in Mathematics
3 credits in Biology
6 credits in Psychology

14.3.2 PRE-SCIENCE

Students must consult with the Director of the Centre for Mature Students before registering.

General Requirements:

6 credits in Chemistry: C205[3], C206[3]
9 credits in Mathematics: C203[3], C204[3] and C205[3]
8 credits in Physics: C204[3], C205[3], C224[1] and C225[1]
3-4 credits in Physics C206[3] and C226[1], or Biology C201[3] or Geology C201[3] or C210[3]
3-4 credits elective*

*Students not having Math C201[3] or the equivalent must take this course in place of the elective credits.

Under certain circumstances students may meet the requirements of the Pre-Science programme by completing 29 credits.

Specific Requirements:

Those students intending to enter programmes of concentration in the departments of Biology, Biophysical Education or Psychology should take Biology C201[3] as part of their pre-Science programme.

14.3.3 PRE-COMMERCE AND ADMINISTRATION

General Requirements:

9 credits in Mathematics C208[3], C209[3], C211[3]
6 credits in English
6 credits in Humanities or Social Science
9 Elective credits

NOTE: *Candidates entering Pre-Commerce and Administration without high school intermediate Mathematics (Functions) must also take Mathematics C201[3] (see § 31.22) which will function as a 3-credit elective. Pre-Commerce and Administration students are advised to select Economics C201[3] and C203[3] (see § 31.11).*

14.3.4 PRE-ENGINEERING

General Requirements:

A minimum of 30 credits including:
Chemistry C205[3]
Computer Science C211[3]
Mathematics C202[3], C203[3], C204[3], C205[3]
Physics C204[3] & C224[1], C205[3] & C225[1]
and elective courses chosen from:
Physics C206[3]* & C226[1]*
Engineering C212[2]**, C213[2]***
Chemistry C206[3]
Biology C201[3]
Accountancy C213[3]
Economics C201[3], C203[3]
Marketing C213[3]
Management C213[3]
ESL 100[6] (if required)

* recommended for students entering Electrical Engineering or Computer Science

** recommended for students entering a B.Eng. programme

*** recommended for students entering Building, Civil, or Mechanical Engineering

14.3.5 PRE-COMPUTER SCIENCE

General Requirements:

General Science, Digital Systems and Mathematics Options: Same as for pre-engineering.

General Business Option:
A minimum of 30 credits including:
Computer Science C211[3]
Mathematics C202[3], C203[3], C204[3], C205[3], C206[3]
12 elective credits (chosen from outside the Faculty of Commerce and Administration and the Department of Computer Science.)

14.3.6 PRE-FINE ARTS

General Requirements:

6 credits in English or French
24 Elective credits

NOTE: Students may complete courses which are part of their Major in an MSP programme. In such cases it will be the responsibility of the student in consultation with an adviser to select additional courses which will fulfill the requirements of the Major and the Bachelor of Fine Arts degree.

Specific Requirements for Programmes of Specialization:

Cinema
6 credits in English (in addition to the general requirement)
6 credits in French
12 Elective credits

Art Education, Art History and Studio Art, Graphic Design, Studio Art:
6 credits in Art C200[6]
6 credits in Design C200[6]
6 credits in Art History C204[6]
6 credits chosen from Art History C232[6], C249[6], Cinema C211[6], Music History C200[6], Theatre C300[6] or 6-credit elective

Art History
6 credits in Art History C240[6]
6 credits in Art C200[6]
12 Elective credits

Music
The following courses are recommended:
3 credits in Music C221[3]
3 credits in Music C222[3]
6 credits in Integrative Music Studies C200[6]
12 Elective credits

Drama, Drama in Education, Theatre Performance:
The following courses are recommended:
6 credits in Theatre C200[6]
6 credits Theatre Arts elective*
6 credits Dramatic Literature
6 credits elective (outside Theatre Arts)

** chosen in consultation with the Assistant Director of Performing Arts, Theatre Arts*

Theatre Scenography:
The following courses are recommended:
6 credits in Theatre C200[6]
6 credits Theatre Arts elective*
6 credits Art C200[6] or, if exempt, Design C200[6]
6 credits Dramatic Literature

** chosen in consultation with the Assistant Director of Performing Arts, Theatre Arts*

14.4 Structure of Studies—Mature Entry Plan (Over 25 Years of Age)

M E P

14.4.1 SCIENCE, ENGINEERING AND COMPUTER SCIENCE

General Requirements:

Persons entering Science, Engineering and Computer Science may be permitted to seek exemptions from part or all of the qualifying part of the programme on the basis of their knowledge. In the case of the General Business Option in the Bachelor of Computer Science programme, this involves the Mathematics courses normally required for entry to that programme.

Engineering and Computer Science will offer a special testing programme to establish exemptions. Science will interview and/or test candidates to determine exemptions.

14.4.2 ARTS, COMMERCE AND ADMINISTRATION, AND FINE ARTS

General Requirements:

Arts:
6 credits in English (language or literature)
12 Elective credits

Commerce and Administration:
9 credits in Mathematics C208[3], C209[3], C211[3]
9 elective credits

NOTE: Candidates entering Pre-Commerce and Administration without high school Intermediate Mathematics (Functions) must also take Functions which course will count as an elective. Pre-Commerce and Administration students are advised to select Economics C201[3] and C203[3] and a course from the Social Sciences to complete the 18-credit profile.

Fine Arts:
6 credits in English or French
12 Elective credits

14.5 Courses

The courses listed below are offered by the respective Faculties. Inclusion of a course in these lists does not guarantee that it will be given every year.

14.5.1 FACULTY OF ARTS AND SCIENCE

All undergraduate courses to which admission is not governed by prerequisite requirements are open to students in the Mature Student Programmes. Listed below, however, are courses either especially developed for students in these programmes or likely to prove of particular value to them. Mature students are therefore urged to give the courses in this their most serious consideration. Full course descriptions will be found in the calendar sections indicated.

***Anthropology** (see **Sociology and Anthropology § 31.30**)*

***Andragogy § 31.4** (see **Education — Adult Education § 31.12**)*

Biology § 31.6
BIOLOGY C200[6]
Fundamentals of Human Biology
BIOLOGY C201[3]
Introductory Biology
BIOLOGY C203[3]
Fundamental Nutrition
BIOLOGY C205[6]
Genetics and Human Welfare
BIOLOGY C208[3]
Environmental Biology I
BIOLOGY C209[3]
Environmental Biology II

Bio-Physical Education § 31.7
BIO-PHYSICAL EDUCATION C201[3]
Philosophical and Sociological Foundations of Health, Physical Education and Recreation
BIO-PHYSICAL EDUCATION C211[3]
Introduction to Motor Learning
BIO-PHYSICAL EDUCATION C241[3]
Recreation and Leisure in Contemporary Society
BIO-PHYSICAL EDUCATION C251[3]
Sports Science

Chemistry § 31.8
CHEMISTRY C205[3]
General Chemistry I
CHEMISTRY C206[3]
General Chemistry II

Classics § 31.9
(Literature)
CLASSICS C211[3]
The Beginnings of European Literature (Greek Literature)
CLASSICS C212[3]
The Beginnings of European Literature (Latin Literature)
CLASSICS C220[6]
Greek Drama, Theatre and Democracy in 5th Century Athens.
CLASSICS C222[3]
The Comic Art
CLASSICS C224[3]
Homer and the Epic Hero I
CLASSICS C225[3]
Homer and the Epic Hero II

(History)
CLASSICS C230[3]
The Ancient Near East I (*see also* HISTORY C219)
CLASSICS C231[3]
The Ancient Near East II (*see also* HISTORY C221)
CLASSICS C240[3]
Greek History I (*see also* HISTORY C223)
CLASSICS C242[3]
Roman History (*see also* HISTORY C225)

(Culture and Civilization)
CLASSICS C250[3]
Greeks and the After Life
CLASSICS C251[3]
Romans and the After Life
CLASSICS C252[3]
Love, Hate and Friendship in the Classical World — I
CLASSICS C253[3]
Love, Hate and Friendship in the Classical World — II
CLASSICS C254[6]
Women in Classical Antiquity
CLASSICS C256[6]
A Comparative Study of Judaic and Greek Traditions
CLASSICS C260[6]
Myth and Mythmaking
CLASSICS C262[3]
Chinese Myths
CLASSICS C264[3] (*see also* HISTORY C227)
An Introduction to Archaeology
CLASSICS C265[3] (*see also* HISTORY C229)
Greek and Roman Art and Archaeology
CLASSICS C266[3]
Civilization, Barbarism and Savagery
CLASSICS C268[3]
Mesoamerican Archaeology
CLASSICS C269[3]
South American Archaeology

(Classical Philology)
CLASSICS C280[6]
Elementary Greek
CLASSICS C290[6]
Elementary Latin

Economics § 31.11
ECONOMICS C200[6]
Introductory Economics
ECONOMICS C201[3]
Introduction to Microeconomics
ECONOMICS C203[3]
Introduction to Macroeconomics
ECONOMICS C250[6]
Introduction to Economic History

Education § 31.12
ADULT EDUCATION C200[6]
Introduction to Adult and Continuing Education
EDUCATION C201[6]
The Nature and Function of Teaching
EDUCATION C210[6]
Psychology of Education
EDUCATION C230[3]
Introduction to the Philosophy of Education

English as a Second Language (see Teaching of English as a Second Language 31.31)

English § 31.13
ENGLISH C205[3]
Basic Language Skills — Stage I
ENGLISH C206[3]
Basic Language Skills — Stage II
ENGLISH C211[6], (or C212[3] and C213[3])
English Composition
ENGLISH C256[6]
Major Writers in English
ENGLISH C257[3]
Introduction to English Literature I
ENGLISH C258[3]
Introduction to English Literature II
ENGLISH C275[3]
Introduction to Poetry
ENGLISH C279[3]
Drama and Poetry
ENGLISH C280[3]
Short Fiction
ENGLISH C290[6]
Canadian Literature
ENGLISH C291[3]
Canadian Fiction
ENGLISH C292[3]
Canadian Poetry
ENGLISH C300[6]
American Literature
ENGLISH C301[3]
American Literature 19th Century
ENGLISH C302[3]
American Literature 20th Century
ENGLISH C320[6]
Shakespeare

French § 31.14
FRANCAIS C200[3]
French Language: Elementary I
FRANCAIS C201[3]
French Language: Elementary II
FRANCAIS C202[3]
Langue Française: Niveau de Transition I
FRANCAIS C203[3]
Langue Française: Niveau de Transition II
FRANCAIS C204[3]
Langue Française Niveau Intermédiaire I
FRANCAIS C205[3]
Langue Française Niveau Intermédiaire II

FRANCAIS C220[6]
Littérature Moderne
FRANCAIS C251[6]
Culture et Civilisation Quebecoises
FRANCAIS C264[3]
Phonétique I
FRANCAIS C270[3]
Introduction à l'Histoire de la Culture et de la Civilisation Françaises I
FRANCAIS C271[3]
Introduction à l'Histoire de la Culture et de la Civilization Françaises II
FRANCAIS C320[6]
Panorama de la Littérature Française
NOTE: Other courses in French may be selected in consultation with the Centre for Mature Students and the Department.

Geography § 31.15
GEOGRAPHY C200[6]
Foundations of Geography — Environment and Man
GEOGRAPHY C201[6]
The Ecology of Man
GEOGRAPHY C211[6]
Introduction to Human Geography
GEOGRAPHY C212[6]
Early Man
GEOGRAPHY C262[6]
Introduction to Cartography
GEOGRAPHY C265[3]
Maps and the Presentation of Statistical Data I
GEOGRAPHY C266[3]
Maps and the Presentation of Statistical Data II
GEOGRAPHY C271[6]
The Natural Environment
GEOGRAPHY C273[6]
The Sea
GEOGRAPHY C275[3]
Climate and the Biosphere
GEOGRAPHY C276[3]
Land Forms and the Biosphere

Geology § 31.16
GEOLOGY C201[3]
Principles of Geology
GEOLOGY C202[3]
Oceonography
GEOLOGY C203[3]
Environmental Geology
GEOLOGY C204[3]
Continental Drift
GEOLOGY C205[3]
Geology of Resources
GEOLOGY C210[3]
Physical Geology
GEOLOGY C211[3]
Mineralogy I
GEOLOGY C220[3]
Earth History

Health Education § 31.17
HEALTH C201[3]
Cell Functions in Health and Disease
HEALTH C206[6]
Applied Human Physiology
HEALTH C208[6]
Nutrition in the 80's
HEALTH C209[3]
Personal Interrelations

History § 31.18
HISTORY C200[6]
The Nature and Practice of History
HISTORY C201[3]
Introduction to European History to 1789
HISTORY C202[3]
Introduction to European History, 1789 to the present
HISTORY C203[3]
History of Canada, pre-Confederation
HISTORY C205[3]
History of Canada, Post-Confederation
HISTORY C209[3]
Quebec to 1867
HISTORY C210[3]
Quebec since Confederation
HISTORY C223[3]
Greek History I (*see also* CLASSICS C240)
HISTORY C225[3]
Roman History (*see also* CLASSICS C242)
HISTORY C251[3]
History of the United States to 1877
HISTORY C253[3]
History of the United States since 1877

Humanities
HUMANITIES 110[6]
General Course in Humanities

It is the purpose of this course to enlarge and enrich the student's comprehension of his cultural heritage by the study of man as a unique creative being. The sources for this study of man are drawn primarily from the fields of history, philosophy, religion, literature and the arts with a view toward examining those experiences and ideas of enduring power which have shaped the nature of modern man from the age of Greece to the present century.

Interdisciplinary Studies § 31.19
INTERDISCIPLINARY STUDIES C220[6]
Introduction to Canadian Studies
INTERDISCIPLINARY STUDIES C250[3]
Introduction to Science and Human Affairs I
INTERDISCIPLINARY STUDIES C251[3]
Introduction to Science and Human Affairs II
INTERDISCIPLINARY STUDIES C252[3]
Contemporary Image of Science: The Physical Sciences
INTERDISCIPLINARY STUDIES C253[3]
Environmental Issue I
INTERDISCIPLINARY STUDIES C254[3]
Environmental Issues II
INTERDISCIPLINARY STUDIES C255[6]
Environmental Studies
INTERDISCIPLINARY STUDIES C256[6]
The Technological Society
INTERDISCIPLINARY STUDIES C270[6]
An Introduction to the Third World
INTERDISCIPLINARY STUDIES C351[6]
Astronomy, Cosmology and the Space Age

Library Studies § 31.21
LIBRARY STUDIES C201[3]
Principles of Library Service
LIBRARY STUDIES C202[3]
Organization of Library Services

Linguistics *(see* ***Modern Languages and Linguistics 31.23)***

Mathematics § 31.22
MATHEMATICS C200[3]
Fundamental Concepts of Algebra
MATHEMATICS C201[3]
Elementary Functions
MATHEMATICS C202[3]
College Algebra
MATHEMATICS C203[3]
Differential and Integral Calculus I
MATHEMATICS C204[3]
Vector Analysis and Analytical Geometry
MATHEMATICS C205[3]
Differential and Integral Calculus II
MATHEMATICS C206[3]
Introduction to Linear Algebra
MATHEMATICS C206[3]
Linear Algebra for the Social Sciences
MATHEMATICS C207[3]
Statistics for the Social Sciences
MATHEMATICS C208[3]
Fundamental Mathematics I
MATHEMATICS C209[3]
Fundamental Mathematics II
MATHEMATICS C211[3]
Fundamental Mathematics III

Modern Languages and Linguistics § 31.23
GERMAN C210[6]
Introductory Course in German
GERMAN C211[3]
Introductory Course in German B
GERMAN C220[6]
Introduction to German Studies
GERMAN C221[3]
Introduction to German Studies B
GERMAN C235[6]
Translation I
GERMAN C250[6]
Intermediate German
GERMAN C255[6]
Translation II
NOTE: Other courses in German may be selected in consultation with the Centre for Mature Students and the Department.
HEBREW C210[6]
Introductory Course in Hebrew A/B
HEBREW C211[3]
introductory Course in Hebrew B
HEBREW C235[6]
Introduction to Biblical Hebrew
HEBREW C300[6]
Intermediate Hebrew
NOTE: Other courses in Hebrew may be selected in consultation with the Centre for Mature Students and the Department.
ITALIAN C210[6]
Introductory Course in Italian
ITALIAN C211[3]
Introductory Course in Italian B
ITALIAN C220[6]
Introduction to Italian Studies
ITALIAN C221[3]
Introduction to Italian Studies B
ITALIAN C250[6]
Intermediate Italian
ITALIAN C255[6]
Translation
NOTE: Other courses in Italian may be selected in consultation with the Centre for Mature Students and the Department.
LINGUISTICS C200[6]
Introduction to Linguistics
RUSSIAN C210[6]
Introductory Course in Russian
RUSSIAN C211[3]
Introductory Course in Russian II
RUSSIAN C220[6]
Introduction to Russian Studies
RUSSIAN C221[3]
Introduction to Russian Studies II
RUSSIAN C235[6]
Translation I
RUSSIAN C250[6]
intermediate Russian
NOTE: Other courses in Russian may be selected in consultation with the Centre for Mature Students and the Department.
SPANISH C210[6]
Introductory Course in Spanish
SPANISH C220[6]
Introduction to Spanish Studies
SPANISH C235[6]
Intermediate Spanish with Translation
SPANISH C250[6]
Intermediate Spanish
NOTE: Other courses in Spanish may be selected in consultation with the Centre for Mature Students and the Department.

Philosophy § 31.24
PHILOSOPHY C201[3]
Problems of Philosophy
PHILOSOPHY C202[6]
Introduction to Philosophy
PHILOSOPHY C224[6]
Introduction to Logic
PHILOSOPHY C240[6]
Philosophy of Man
PHILOSOPHY C211[6]
Philosophical Classics
PHILOSOPHY C241[6]
Ethics
PHILOSOPHY C313[6]
Contemporary Philosophy
PHILOSOPHY C312[6]
Existentialism

Physics § 31.25
PHYSICS C204[6]
Mechanics
PHYSICS C205[3]
Electricity and Magnetism
PHYSICS C206[3]
Waves and Modern Physics
PHYSICS C210[6]
Discoveries in Physics
PHYSICS C224[1]
Introductory Experimental Mechanics
PHYSICS C225[1]
Introductory Experimental Electricity
PHYSICS C226[1]
Introductory Experimental Waves and Modern Physics

Psychology § 31.27
PSYCHOLOGY C200[6]
Introductory Psychology

Political Science § 31.26
POLITICAL SCIENCE C200[6]
Introduction to Political Science
POLITICAL SCIENCE C210[6]
International Relations

POLITICAL SCIENCE C230[6]
Comparative Politics of Western Europe
POLITICAL SCIENCE C250[6]
Canadian Government and Politics
POLITICAL SCIENCE C271[3]
Ancient Greek Political Philosophy
POLITICAL SCIENCE C273[3]
Roman Mediaeval and Renaissance Philosophy
POLITICAL SCIENCE C315[3]
International Organizations
POLITICAL SCIENCE C317[3]
Regional Organizations
POLITICAL SCIENCE C330[6]
American Government and Politics
POLITICAL SCIENCE C331[3]
British Government and Politics
POLITICAL SCIENCE C333[3]
The Government and Politics of the Soviet Union

Religion § 31.28
RELIGION C211[6]
Understanding Religion
RELIGION C213[6]
Major Religious Traditions of the World
RELIGION C222[6]
Judaic Studies: History of the Jewish People
RELIGION C301[3]
Biblical Studies I: The Hebrew Bible
RELIGION C302[3]
Biblical Studies II: The New Testament
RELIGION C329[3]
Sefardic Judaism
RELIGION C331[3]
Contemporary Ethical Issues: Personal
RELIGION C332[3]
Contemporary Ethical Issues: Societal
RELIGION C333[3]
Women and Religion I
RELIGION C334[3]
Women and Religion II
RELIGION C341[6]
Religion and Literature

Social Science
SOCIAL SCIENCE 110[6]
General Course in the Social Sciences

This course has a dual purpose: to introduce the student to some of the basic concepts and subject matter of the various social sciences and to demonstrate their interrelation; and to provide the student with some knowledge of contemporary society and the social problems which confront it.

Sociology and Anthropology § 31.30
ANTHROPOLOGY C211[6]
Introduction to Anthropology
SOCIOLOGY C200[6]
Introduction to Sociology
SOCIOLOGY C220[3]
Social Organizations

Teaching of English as a Second Language § 31.31
English as a Second Language
ESL 100[6]
English Language
ESL C201[6]
English Language and Composition

Theological Studies § 31.32
THEOLOGICAL STUDIES C210[3]
Christian Beliefs
THEOLOGICAL STUDIES C211[3]
Christianity: Multicultural Perspective
THEOLOGICAL STUDIES C215[3]
Christian Mysticism
THEOLOGICAL STUDIES C220[3]
The Bible and Western Culture I
THEOLOGICAL STUDIES C221[3]
The Bible and Western Culture II
THEOLOGICAL STUDIES C225[3]
History, Culture and the Christian Way of Life
THEOLOGICAL STUDIES C230[3]
Contemporary Atheism
THEOLOGICAL STUDIES C240[3]
Theology and the Arts I
THEOLOGICAL STUDIES C241[3]
Theology and the Arts II
THEOLOGICAL STUDIES C264[3]
Theological Dimensions of Psychology I
THEOLOGICAL STUDIES C266[3]
Theological Dimensions of Psychology II
NOTE: Other courses in Theological Studies may be selected in consultation with the Centre for Mature Students and the Department.

14.5.2 FACULTY OF COMMERCE AND ADMINISTRATION

ADMINISTRATION C201[3]
Introduction to Administration
ADMINISTRATION C202[3]
Perspective on Business

14.5.3 FACULTY OF ENGINEERING

COMPUTER SCIENCE C211[3]
Introduction to Computers and Computing

14.5.4 FACULTY OF FINE ARTS

NOTE: For full course descriptions, refer to the section indicated.

VISUAL ARTS
Studio Art § 81.4.2
ART C200[6]
Studio Art I
DESIGN C200[6]
Introduction to Design

Art History § 81.6.2
ART HISTORY C232[6]
Introduction to Architecture and Sculpture
ART HISTORY C240[6]
Introduction to Art History
ART HISTORY C249[6]
Canadian Sculpture and Architecture

Cinema § 81.7.2
FILM STUDIES C200[6]
Introduction to Film Studies
FILM STUDIES C211[6]
History of Film

PERFORMING ARTS
Music § 81.9.2
MUSIC C221[3]
Theory/Aural Training I
MUSIC C222[3]
Theory/Aural Training II

MUSIC C230[6]
Private Study B I
MUSIC C231[3]
Private Study A I

Music History
MUSIC HISTORY C200[6]
Music History and Society

Integrative Music Studies
INTEGRATIVE MUSIC STUDIES C200[6]
Theory/Composition/Analysis I

Music Performance Studies
MUSIC PERFORMANCE C200[6]
Orchestra I
MUSIC PERFORMANCE STUDIES C220[6]
Choir I

Theatre § 81.10.2*
THEATRE C200[6]
Theatre Principles and Practices
Scenography
SCENOGRAPHY C201[3]
Stagecraft I
SCENOGRAPHY C202[3]
Stagecraft II
SCENOGRAPHY C220[6]
Costume Construction

Theatre Performance
THEATRE PERFORMANCE C201[3]
Acting I
THEATRE PERFORMANCE C202[3]
Acting II
** with permission of the Assistant Director of Performing Arts, Theatre Arts, a Pre-Fine Arts student may substitute any 6 credits in Theatre Arts for credits listed.*

15 Tuition and Fees

15.1 Tuition and Fees

The University reserves the right to change the published scale of fees without notice.

Tuition — all undergraduate courses

	Per Credit
Canadian and other students with landed immigrant status —	
Undergraduate	$ 15.00
Independent	$ 20.00
Foreign students	$ 50.00*

* Certain foreign students may be eligible to pay the same tuition fees as Canadian students. Details may be obtained from the Accounts or Admissions Offices.

Other Fees —

Copy of Registration certificate	$ 1.00
Duplicate of receipt	$ 2.00
Graduation Fee	$ 20.00
Late Registration Fee	$ 10.00
Removal of "Incomplete"	$ 10.00
Special Examination Fee	$ 15.00
Supplemental Examination	
Written at Concordia	$ 10.00
Written elsewhere — plus invigilation fee when applicable	$ 15.00
Transcript of academic record	$ 1.00

In addition to the fees set out above, students are required to pay certain Student Service Fees, Student Association Fees and other miscellaneous charges. The current rate of these fees and charges can be obtained from the Student Accounts Offices.

15.2 Payment of Tuition and Fees

Payment of tuition and other fees may be made in accordance with the following options:

Fall Registration —
a) payment in full at registration
b) payment in two instalments —
1. at registration — one half tuition plus all other fees plus $10.00 deferred payment fee.
2. by January 15th — balance.

Winter Registration —
a) payment in full at registration
b) payment in two instalments —
1. at registration — one half plus all other fees plus $5.00 deferred payment fee.
2. by January 15th — balance.

An additional charge of $5.00 will be made if instalment payments are not made on their due dates.

Registration may be cancelled if a cheque is returned for any reason. In any event, a charge of $5.00 will be made for each returned cheque.

Failure to make payment, or to arrange satisfactory settlement, of amounts owing to the University when they become due is sufficient cause to bar the student from classes or examinations, and to withhold diploma, scholastic certificate or transcript of record until the debt is adjusted with the University.

Registration is not considered complete until satisfactory arrangements have been made for the payment of fees.

All contracts are subject to revision for the adjustment of errors or omissions.

15.3 Course cancellations, withdrawals and adjustment

Students who withdraw from courses or from the University must comply with the requirements set out in the Timetable of Classes published before each academic session in order to qualify for a rebate of tuition according to the following scale:

1. Students who withdraw from the University before the end of the fall course change period — full rebate of tuition less 6%.

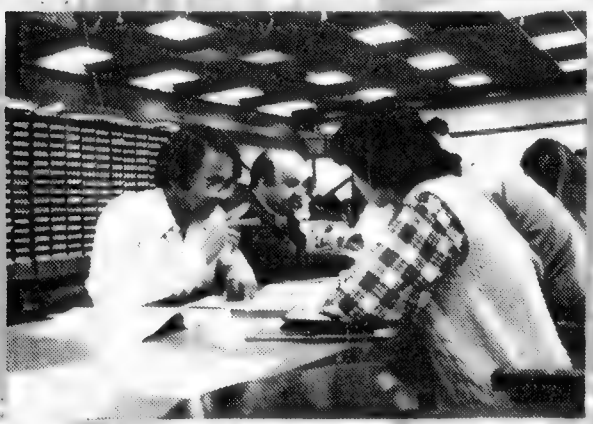
2. All others — **Rebate of Tuition** for courses of

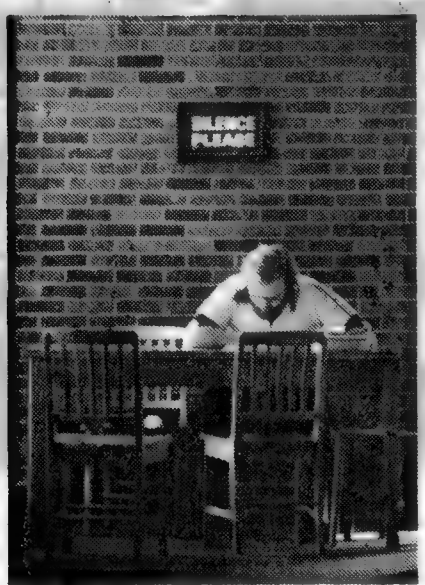
	1st Term	Two Terms	2nd Term
Prior to the end of the fall course change period	Full rebate	Full rebate	Full rebate
End of fall course change period to September 30	3/4	7/8	Full rebate
October 1 to November 1	1/2	3/4	Full rebate
November 2 to November 30		5/8	Full rebate
December 1 to end of January course change period		1/2	Full rebate
End of January course change period to January 31		3/8	3/4
February 1 to February 28		1/4	1/2

The above rebates apply to the net reduction of courses within each course category. Different course categories are not combined for purposes of tuition rebate calculations.

Student Services fees and Student Association fees are subject to the same schedule of rebates as tuition. All other fees are not refundable.

Regulations for the summer session are published separately.

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16 Academic Regulations

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16.1 General Information

It is the responsibility of the student to know the academic regulations.

16.1.1 ACADEMIC YEAR

The Academic Year is defined as courses taken during the Summer Session and Regular Session.

Summer Session:

The Summer Session consists of a ten week session operated in the evening and a six week session operated in the day. The Summer Session is part of the following Regular Session for record purposes.

Regular Session:

The day and evening Regular Session of the University is divided into Fall and Winter Terms of fifteen weeks each including an examination period. Dates marking the opening and closing of these terms are found in the Academic Calendar Section II.

16.1.2 DEFINITION OF CREDIT

In accordance with the recommendations of the Quebec Council of Universities, effective 1974-75, the credit base takes into account the total activity of the student, in terms of lectures, conferences, laboratories, studio or practice periods, examinations, and personal work. One credit represents, for the average student, a minimum of 45 hours spread across the various activities listed above.

16.1.3 STATUS

Full-time students are those registered for 24 credits or more in the Regular Session or 12 credits or more in either the Fall Term or the Winter Term.

Part-time students are those registered for less than 24 credits in the Regular Session or less than 12 credits in either the Fall Term or the Winter Term.

Special students — please see § 13.9.

An *Independent student* is one who is not proceeding to a degree, diploma or certificate. Independent students may not register for more than 18 credits in the Regular Session.

16.1.4 COURSE LOAD

Regular Session — Full-Time Status

The course load varies according to the faculty in which the student is enrolled.

1) FACULTY OF FINE ARTS
The normal course load for the Faculty is 30 credits. To carry additional credits the student must submit his/her request to the Student Request Committee of the Faculty.

2) FACULTY OF ARTS AND SCIENCE
Students in the Faculty of Arts and Science may register for a maximum of 30 credits in any Regular Session.

3) DEPARTMENT OF COMPUTER SCIENCE
Students enrolled in the Bachelor of Computer Science will normally register for a maximum of 30 credits in any Regular Session.

4) FACULTY OF COMMERCE AND ADMINISTRATION
A student may register for a maximum of 30 credits in any Regular Session.

5) FACULTY OF ENGINEERING
See under Engineering Faculty § 71.

Regular Session Part-Time Students

Students may register for a maximum of three 6-credit courses or the equivalent equally divided between the Fall Term and the Winter Term.

Summer Session

Students may not take more than the total of 12 credits of work during the Summer Session. The Summer Session includes all courses scheduled from the month of May to the month of August inclusive.

16.1.5 RESIDENCE REQUIREMENTS

1. In addition to the specified courses, there is a residence requirement of 45 credits for any degree, defined as follows: A student in Arts, Fine Arts, Science, Commerce and Computer Science must complete the last forty-five credits of the courses of the degree requirements at Concordia University. Engineering students must complete the final fifteen half-semester courses of the required departmental degree programmes in residence at Concordia University.
2. Any student who already possesses one degree must satisfy the following regulations in order to earn a second degree at the Bachelor's level at concordia University:
   a) Register in an established programme with a higher degree of concentration than a Minor.
   b) Complete sixty credits in courses other than those credited towards the first degree, at least thirty-six of which must be taken in the new field of specialization.
3. Any student seeking to transfer to Concordia University after having failed at another university or after having compiled an unsatisfactory record at another university must fulfill the residence requirements stipulated for him upon admission. In general, a minimum of sixty credits will be required for any degree.

16.1.6 REGISTRATION FOR COURSES

A central computerized registration is held in August for both the Fall and Winter terms, and in May for all summer terms. At that time, students select their courses for the

upcoming session, receive a contract and course cards, make tuition payment and receive an I.D. card.

All information necessary for registration is found in the applicable class schedule.

A preregistration system is also available to full-time students for the Regular session.

Refer to 13.1 regarding eligibility.

For further information, please contact the Registrar's Services Department on either campus.

16.1.7 CROSS-REGISTRATION

Concordia University, McGill University, Université de Montréal and Université du Québec à Montréal have agreed to permit transfer of academic credit and course fees between Montreal universities up to a maximum of 6 credits in any one year. (Similar arrangements can be made with other Quebec universities.) In exceptional cases, a student may be authorized to take up to 12 credits at another university. Part-time students may be authorized to register for credits on the condition that the number of credits for which he registers does not exceed 30% of the number of credits taken at the home university per academic year. The agreement is intended to include only those courses not given at the home university which fit a student's program requirements. Authorization for an undergraduate student to cross-register must be given by the student's academic adviser, the Assistant Dean for Student Affairs, and the Registrar. The arrangement allows for payment to be made by Concordia to the "host" university if the student has paid tuition fees in full to Concordia University.

This agreement in no way interferes with the host university's right to accept or refuse, as it sees fit, registration of a student from another university in any of the courses or programs which it offers. Further, when attending the host university, the student is subject to its regulations.

Credit earned within this policy are counted towards the University residence requirements.

16.1.8 GRADUATION

Degree candidates who expect to complete the requirements for a degree in a particular year must contact the Registrar's Office to make application for that degree. Forms provided by the Registrar's Information Office must be submitted before October 1, 1980.

16.1.9 HIGH ACADEMIC ACHIEVEMENT

Distinction: A degree With Distinction or With Great Distinction may be achieved by obtaining the following levels:

With Distinction 'A' – or 'A' or 80-90%
With Great Distinction 'A+' or 90-100%

The average will be calculated over the student's last 90 credits, or, in the case of transfer students, all courses taken at Concordia. However, a transfer student must have taken a minimum of sixty credits at Concordia in order to be eligible for distinguished mention.

16.2 Programmes and Regulations

16.2.1 CURRICULUM OBLIGATIONS

Where a student acquires credit toward a degree, diploma or certificate in a discontinuous manner and over a protracted period of time subsequent to his admission, the University reserves the right, at any time, to require such student to take further credits in order to obtain that degree, diploma or certificate.

16.2.2 CURRICULUM REGULATIONS

The regulations related to the degree requirements are located in the Faculty sections:

Faculty of Arts and Science — § 31
Faculty of Commerce and Administration — § 61
Faculty of Engineering — § 71
Faculty of Fine Arts — § 81

16.2.3 CONCENTRATION REQUIREMENT

Since the CEGEP programme is designed to give all students the opportunity to explore different fields and thus acquire a broad general basis for future study, the undergraduate programme requires some degree of concentration, according to the interests and capacities of the student. There are several forms of concentration, ranging through Honours, which requires success in a programme of high concentration accompanied by a prescribed level of performance; the Specialization and the Major requiring varying degrees of concentration without a prescribed performance requirement; and the Double Minor, involving a lesser degree of concentration in two disciplines or fields, and without a prescribed performance requirement.

In order to graduate, therefore, a student must have completed one of the following types of programme: a Double Minor; an Interdisciplinary Major; a Departmental Major; a Specialization programme; a combined Honours programme; a Departmental Honours programme.

Prior to registration, students will be required to select one of the types of programme outlined above. In the case of Honours, students will register upon entry in an Honours *programme,* but their acceptance as Honours *students* will depend on their performance during their first year. Students failing to meet requirements for Honours standing will proceed in either a Specialization or a Major programme.

16.2.4 HONOURS PROGRAMMES (NEW CONCORDIA REGULATIONS)

These regulations represent a minimum academic standard for Honours Programmes. All Programmes and additional Faculty regulations, including those with higher standards, are listed in the Faculty sections under "Honours Programmes".

The University has approved programmes leading to an Honours degree in certain selected fields. The Honours programme consists of 60 or more credits in a discipline or field, with superior performance being required to enter and remain in the programme. In order to qualify for an Honours degree a student must comply with the regulations set forth below:

1. An Honours student must meet the general degree requirements as well as the specific requirements for an Honours degree.
2. An Honours student must maintain an average of 'B' or 75% in all Honours courses; the minimum acceptable grade in any single Honours course is C or 65%.
3. An Honours student must have a minimum average of 'B−'' or 71% over Honours courses taken in each academic year. For part-time students this will be calculated in eighteen credit blocks.
4. In the non-Honours courses of the degree programme, an Honours student must have an average of no less than 'C' or 65%.
5. Students who are required to withdraw from the Honours programme will proceed in the Major or Specialization programme. Reinstatement in the Honours programme is possible only by appeal to The Faculty Honours Committee.

These new regulations apply to those students entering Honour Programmes on or after June 1, 1977. Students starting in an Honours programme prior to that date may continue under the old regulations published in the 1978/79 Undergraduate Calendar.

16.2.5 SPECIALIZATION PROGRAMMES

The Specialization, in keeping with the structures recommended by the Quebec Council of Universities, is an approved sequence of courses including 60 or more credits without a prescribed performance requirement.

16.2.6 MAJOR PROGRAMMES

The Major, again in keeping with the structures recommended by the Quebec Council of Universities, is an approved sequence of courses including 36 or more credits. As in the case of the Specialization, the Major may include certain approved courses in other closely related fields.

16.2.7 MINOR PROGRAMMES

A programme, again in keeping with the structures recommended by the Quebec Council of Universities, is an approved sequence of 24 or more credits.

16.2.8 DOUBLE MINOR PROGRAMMES

Double Minor programmes are made up of two approved sequences of 24 or more credits in two specific disciplines or fields. A student may combine any two Minors to form a Double Minor. (Only available in the Faculty of Commerce and Administration, Faculty of Fine Arts)

16.2.9 MAJOR-MINOR COMBINATIONS

A Major programme may be combined with a Minor programme.

16.2.10 CERTIFICATE PROGRAMMES

An Undergraduate Certificate programme is a coherent programme of 30 credits made up of regular undergraduate courses, which are, in turn, normally applicable to the appropriate Bachelors Degree.

16.3 Evaluation, Grading, Examinations and Advancement

16.3.1 EVALUATION

A university degree certifies that its holder has attained a measurable level of achievement, as established by a recognized system of evaluation. It is consequently required that the performance of each student in each course be evaluated by the instructor (or instructors) responsible for the course.

The final grade which assesses the performance of each student in each course will take into account the total measurable performance of the student in that course. Specifically, the grade will be given on the basis of one or more of the following:

i) Assigned work, term papers, projects, etc.
ii) Class participation, which in the case of certain disciplines may justify an attendance requirement.
iii) Progress tests.
iv) Laboratory tests and/or laboratory work.
v) Mid-term and/or final examinations.
vi) A level of written expression may be given consideration in determining the final grade.

The weighting of the various evaluative elements is the responsibility of the instructor. At the beginning of the course the instructor will inform the class of the evaluative scheme to be used.

While the language of instruction in Concordia University is normally English, students have the right to write their assignments and examinations in French. It must be understood, however, that in a case where an instructor cannot read French, the assignments or examinations will have to be read by another person, with possible resulting disadvantages and delays for the student. Students are advised to enquire of the instructor at the beginning of their course

whether he or she will personally read assignments and/or examinations written in French. Notwithstanding the above, language and literature departments may require assignments and examinations to be written in the language being studied.

The instructor has the option of submitting grades on either a percentage scale or a letter grade scale, subject to the decision of each Faculty Council.

If a Faculty member assigns a percentage it will be converted to a letter grade in accordance with Table A. Both grades will appear on record and transcript.

If a letter grade is assigned it will be converted to a numerical mark shown in Table B. Both grades will appear on record and transcript.

The numerical grades will be used for evaluation of academic achievement levels.

16.3.2 GRADING SYSTEM

Assigned or Converted letter or numerical mark

TABLE A		TABLE B	
From	To	From	To
90-100	A+	A+	95
85- 89	A	A	87
80- 84	A−	A−	82
77- 79	B+	B+	78
73- 76	B	B	75
70- 72	B−	B−	71
67- 69	C+	C+	68
63- 66	C	C	65
60- 62	C−	C−	61
57- 59	D+	D+	58
53- 56	D	D	55
50- 52	D−	D−	51
40	F	F	40
20	R	R	20

F — Failing Grade

The grade submitted will either be 'F' or 40.

For courses in which supplemental examinations are not precluded, a student to whom an 'F' grade has been assigned and who is in good academic standing, may, subject to the regulations of the Faculty, write a supplemental examination.

For courses in which supplemental examinations are precluded, this grade will be recorded as FNS to draw attention to the absence of supplemental privilege for the course in question.

R — Repeat Failing Grade

The grade submitted will be either 'R' or 20.

Students graded 'R' or 20 in a course may not write supplemental examinations and must repeat the course to receive credit providing such repetitions are permitted within the failure regulations and/or the regulations concerning the repetition of courses.

16.3.3 GRADING — PROCEDURES AND SPECIAL CASES

In each course the instructor is expected to make an evaluation and submit a grade for every student registered.

If the student has not completed all necessary work, or has not written the required examinations, the instructor submits a grade based on the weighted sum of grades on completed work and zero for incompleted work. (See examples i, ii and iii below). It should be noted that an instructor may stipulate that in order to achieve a passing grade in a course, a student must have demonstrated a specified level of competence in particular components required for evaluation in that course. (See examples (iv)a, (iv)b and (iv)c below).

In the event that a student appears to have withdrawn, unofficially, from a course, and *no* material is available for evaluation, the instructor will clearly *not* be able to submit a grade. The Registrar will indicate this situation with the notation NR (Not Reported). This notation carries no numerical weighting but denotes a failure for purposes of counting the number of failed courses in assessing academic standing.

Examples

The following examples demonstrate application of the system. They are all based on the assumption that the final mark is composed of 20% assignments; 40% term paper; 40% examination, for illustrative purposes only.

		Assignments	*Term Paper*	*Examinations*	*Total*
(i)	Weighting	20%	40%	40%	100%
	Specific mark out of 100	90	not written	80	
	Contribution to final grade	18	—	32	50

The final grade is 50 or 'D−', and INC is noted if the *instructor* is prepared to accept a late term paper.

(ii)		*Assignment*	*Term Paper*	*Examinations*	*Total*
	Weighting	20%	40%	40%	100%
	Specific mark out of 100	85	85	not written	
	Contribution to final grade	17	34	—	51

The final grade is 51 or 'D−', and DNW is noted.

(iii)		*Assignments*	*Term Paper*	*Examinations*	*Total*
	Weighting	20%	40%	40%	100%
	Specific mark out of 100	90	not written	not written	
	Contribution to final grade	18	—	—	18

The final grade is 'R' (weighted 20), and DNW and INC are noted. The course must be repeated for credit.

(iv) a. The instructor has stipulated that at least 45% be achieved on the final examination in order that a passing grade be obtained in the course:

	Assignments	*Term Paper*	*Examinations*	*Total*
Weighting	20%	40%	40%	100%
Specific mark out of 100	90	70	35	
Contribution to final grade	18	28	14	60

While the weighted sum is 60, the stipulated 40% was not achieved on the final examination, and so *the final grade is submitted as 'F', and weighted at 40.*

b. The instructor has stipulated that at least 45% be achieved on the final examination in order that a passing grade be obtained in the course:

	Assignments	*Term Paper*	*Examinations*	*Total*
Weighting	20%	40%	40%	100%
Specific mark out of 100	90	85	not written	
Contribution to final grade	18	34	—	52

While the weighted sum is 52, the final examination was not written, and hence the stipulated 45% was not achieved, and so *the final grade is submitted as 'F', and weighted at 40, with the notation DNW added.*

c. The instructor has stipulated that at least 45% be achieved on the term paper in order that a passing grade be obtained in the course:

	Assignments	*Term Paper*	*Examination*	*Total*
Weighting	20%	40%	40%	100%
Specific mark out of 100	90	not written	85	
Contribution to final grade	18	—	34	52

While the weighted sum is 52, the term paper stipulation has not been met, and so *the final grade is submitted as 'F' and weighted at 40, with the notation INC added.*

INC, DNW, and MED

If the work for a course has not been completed, the following notations will be made after the grade given for that course:

INC (Incomplete) denotes that, though the final examination, if any, was written, work essential for evaluation of a student's performance, such as a term paper or a laboratory, was not completed.

DNW (Did Not Write) denotes that, though the instructor marked the term work, the final examination was not written.

In some circumstances, both INC and DNW may be used simultaneously.

MED (Medical) denotes that, an examination or assignment was missed for medical reasons. This notation is entered on the record by the Registrar's Office upon receipt of an acceptable medical certificate.

Replacement of 'F', DNW, INC and MED Entries

The method of recording changes from 'F', DNW, INC and MED entries will be as follows:

a) In cases where a supplemental examination or a late completion has been allowed on medical or compassionate grounds, the new grade will replace the original entry.

b) In all other instances the original entry will be retained on the transcript. A second entry of the course code will be made along with the final grade. An (X) beside this final grade will indicate the late completion or supplemental. (X) will be explained at the foot of the transcript.

c) Students failing a supplemental examination will receive the grade 'R' or 20.

d) Students eligible to write a supplemental examination on medical grounds, but who do not wish to avail themselves of this right, will have their records altered by the Registrar's Office from the original entry of 'F-DNW' or 'F-INC' submitted by the instructor to 'MED-DNW' or 'MED-INC'.

16.3.4 ACADEMIC RE-EVALUATION

A. General

1. All students have the right to apply for the re-evaluation of any grade they receive. Such an application may be based on dissatisfaction with either the grade received or the method of grading. Grades may be either lowered, maintained or raised as a result of the re-evaluation.
2. Students have the right to see their examination papers and any marked material that has contributed to the grading of a course. Students are responsible for the preservation and production in the case of a re-evaluation of any marked material that has been returned to them by an instructor. Departments (Divisions in Fine Arts) are responsible for the preservation and production of written materials in their possession for a period of six months following the official release of grades.

B. Normal Procedure

1. Students who seek re-evaluation of their work will in the first instance endeavour to meet with the instructor and explain their position to him. If they remain dissatisfied, or are unable to meet with the instructor, they may on receipt of the final grade for the course apply formally for re-evaluation.
2. A formal application for re-evaluation will be made to the Registrar. Each application must be on the appropriate form, and be in writing and signed. It must set out the reasons for the dissatisfaction and also contain a statement that the student has met with the instructor or has tried to meet with the instructor and failed.
3. An application must be submitted by:
   Fall term courses — Feb. 1
   Winter term courses — June 15
   Summer Session courses — Oct. 1
   The Registrar may extend these deadlines in particular cases, but only if the person applying for re-evaluation could not reasonably have done so within the above deadlines.
4. The Registrar will forward the application immediately to the chairman of the appropriate department, with a copy to the instructor and the Dean.
5. According to the nature of the application, the department chairman will appoint a person or a committee to carry out a re-evaluation or investigation, and will so inform the student, the instructor, the appropriate Dean and the Registrar, naming the person or persons appointed. A member of the faculty in whose course the student is currently enrolled is not normally eligible for appointment to carry out a re-evaluation or investigation.
6. The re-evaluation or investigation will normally be completed within 21 days of the receipt of the application by the chairman.
7. The chairman will inform the student, the instructor, the Dean and the Registrar of the decision of the person or committee charged with the re-evaluation or investigation.

C. Priority Procedure

1. The priority appeal procedure is provided to accelerate the process for specific courses designated by the faculties. A list of these courses is posted in the Registrar's Service Department prior to the beginning of the course change period each term.
2. Students registered in courses that have been designated by the faculties may file a priority appeal with the Registrar as soon as the grade is known but in no case later than 3 days before the end of the course change period for the next term.
3. Students who opt for this priority procedure will still in the first instance endeavour to meet with the instructor. If the issue is resolved between the student and the instructor after an appeal is launched the appeal must be cancelled by the student. If the appeal is not cancelled a fee of $10 will be added to the student's account.
4. The Dean will appoint a person who, in collaboration with the Registrar will insure accelerated processing of priority appeals insofar as possible in accordance with the procedures set out in B-5.

5. The re-evaluation or investigation of priority applications must be completed prior to the last day of the course change period for the next term.
6. The Dean's appointee will inform the student, the instructor, the Dean and the Registrar of the decision of the person or committee charged with the re-evaluation or investigation.

D. Appeals

1. Both the student and the instructor have a right of appeal against the decision.
2. An appeal will be made to the Dean and will normally be lodged within 14 days of the announcement of the decision by the chairman. Each appeal must be on the appropriate form, and be in writing and signed. It must set out the reasons for the appeal.
3. It is the responsibility of the Dean to inform the student or the instructor as may be required, the chairman and the Registrar that an appeal has been received.
4. The Dean will refer the appeal to the Faculty Appeal Committee, a standing committee of Faculty Council.
5. Faculty Appeal Committee procedures will be determined by the appropriate Faculty Council.
6. The Faculty Appeal Committee will be composed of an equal number of faculty and students, who will choose a chairman from outside their initial membership.
7. The Faculty Appeal Committee will deal with the appeal as it sees fit.
8. A decision will normally be rendered within 21 days of the lodging of an appeal.
9. There is no further appeal once the Faculty Appeal Committee has rendered its decision.
10. It is the responsibility of the Committee to inform the student, the instructor, the chairman, the Dean, and the Registrar of the decision.

16.3.5 FAILURE REGULATIONS*

These failure regulations are to be considered as defining the minimum standard acceptable to the University. Subject to the approval of Senate, higher standards may be established by any Faculty. For purposes of these regulations, "failure" includes the grades F, FNS, R, and NR.

i) *90 Credit Programme*

a. Any student who fails courses equivalent to more than twelve credits before obtaining thirty credits on record, or who fails courses equivalent to more than twenty-four credits before obtaining sixty credits on record is a failed student.

Such a student will have entered on record:

"Failed. Must obtain permission to re-register from the Faculty Dean."

b. Any student who fails courses equivalent to more than thirty credits is a failed student. Such a failed student may not apply for readmission.

Such a student will have entered on record:

"Failed. May not re-register."

ii) *Extended Credit Programmes (MSP, MEP, ECP)*

a. Any student who fails courses equivalent to more than twelve credits before obtaining thirty credits on record, or who fails courses equivalent to more than twenty-four credits before obtaining sixty credits on record, or who fails courses equivalent to more than thirty-six credits before obtaining ninety credits on record is a failed student.

Such a student will have entered on record:

"Failed. Must obtain permission to re-register from the Faculty Dean."

b. Any student who fails courses equivalent to more than forty-two credits is a failed student. Such a failed student may not apply for re-admission.

Such a student will have entered on record:

"Failed. May not re-register."

iii) *Regulations for Failed Students*

a. Failed students are neither eligible to write supplemental examinations nor entitled to late completion of courses.
b. Failed students who are given permission to re-register are placed on Academic Probation.
c. Students placed on Academic Probation must pass the next thirty credits on the first attempt and satisfy any other conditions specified for their re-admission. Students failing to meet these requirements may not apply for re-admission.

These Failure Regulations are liable to modification in the case of students transferring either between faculties or from another university.

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* Students in the Faculty of Engineering will be subject to the failure regulation published in Section 71.1.3 of the Faculty of Engineering Regulations.

16.3.6 SUPPLEMENTAL EXAMINATIONS — REGULATIONS

University Regulations

1. Each Faculty determines the availability of supplemental examinations for the courses offered by that Faculty. Such availability is governed by the rules of the Faculty in which the course is offered, not those of the Faculty in which a student is registered.

2. A student is not permitted to write two supplemental examinations for the same course, whether or not the course is being repeated. However, a supplemental may be written for a course being repeated if the student has not written one previously for that course.

3. A failed student, or a student on academic probation, or a student with conditional standing (Faculty of Engineering), is not permitted to write supplemental examinations.

4. Should a student fail a course which there is no supplemental examination, the absence of a supplemental examination will be recorded together with the failing grade. (Section 16.3.2).

5. Supplemental examinations for courses taken in the regular session will be written in the following July. Supplemental examinations for courses taken in the summer session will be written in the following October.

6. Medical reasons (certified by a physician on his letterhead) can constitute a valid excuse for exemption from most of the regulations governing supplemental examinations. Such medical reasons must be submitted to the Examinations Office within ten days of a missed examination. The entry on the record for the original examination in such cases is Med/DNW.

7. (a) A student who has missed a regular examination for medical reasons may write the supplemental examination as a final examination. A student who passes will receive a normal grade. A student who fails may apply to the Examinations Office to write a second supplemental examination.

(b) A student who has missed a supplemental examination for medical reasons is graded Med/DNW., and may apply to the Examinations Office to write another supplemental on another date.

8. A student who is taken ill during an examination and so is unable to finish it should obtain a written statement to this effect from the nurse on duty at the Health Centre, and deliver that statement within ten days to the Examinations Office.

9. Applications to write a supplemental examination for a course in the summer session will be submitted by October 1, and for a course in the regular session by June 15. Graduating students have until February 1 to submit an application to write a supplemental examination for a course in the fall term. The appropriate fee must accompany all applications.

10. Students who wish to write a supplemental examination at an external centre will first discuss their situation with the Director of Examinations. The external application form must be completed as well as the regular application form.

16.3.7 REGULATIONS CONCERNING COURSES WITH INCOMPLETE NOTATIONS

1. A failed student is ineligible to complete a course with an incomplete notation.

2. A student is ineligible to complete a course with an incomplete notation in a course graded 'R'.

3. An application for an incomplete must be submitted by:

Fall term courses	— February 1
Winter term courses	— June 15
Summer Session courses	— October 1

4. The limiting dates for the submission of late work are:

a) For Fall term courses not later than April 1st.
b) For all other courses in the Regular Session not later than August 1st.
c) For all courses in the Summer Session not later than November 1st.

5. For 6 credit courses taken during the Fall/winter Session or 3 credit courses taken during the Winter Session, students are advised that work completed for courses with an incomplete notation and reported to the Registrar's Office before the submission of the list of failed students to the Deans will not count as a failure when assessing academic standing. The date for the receipt of these grade changes by the Registrar's Office is May 20th, 1981.

NOTE: The University is not responsible for providing facilities to enable students to clear courses with an incomplete notation by this date.

16.3.8 REPETITION OF COURSES

1. In general a student may repeat a failed course only once. However, should a course required for a programme be failed a second time, a student must appeal to the appropriate student request committee for permission to take the course a third time, or for permission to replace the required course with another.

2. A student who has received credits for a completed course may not write the supplemental examination.

3. A student who has received credit for a completed course may repeat a course for personal reasons, for instance, an external requirement. The student's record will reflect the new grade, however there will be no credit value associated with the grade. The original entry will be used for averaging purposes, except as provided by the special regulations for the Faculty of Engineering.

4. A student who fails a course that is specifically required for a degree must take the course during the session for which he next registers. If a required course is taken for the first time during the Summer Session and is failed, a student may postpone his registration for repetition of the course until the session following the regular schedule supplementary examination period for Summer Session courses.

16.3.9 REGULATIONS REGARDING CHEATING (UNDERGRADUATE)

I. *General*

1. Where the word 'examination' is used it shall be taken to cover any examination, test or similar evaluative exercise carried out under invigilation. The invigilator may be the course instructor or another person.

2. Every examination paper shall expressly list the materials that a student is permitted to have and use during the examination, such as text-books with notations, textbooks without notations, calculators, etc.

3. Every examination paper shall expressly indicate any special conditions relating to the examination, such as permission for students to work together.

4. A student in the examination area will not speak to or otherwise communicate with another person other than an invigilator unless such communication has been expressly authorized by those conducting the examination.

5. It is the duty of an invigilator to report to the Registrar in writing any apparent instance of cheating as defined in Section II, 1 below.

6. Wherever there is doubt or ambiguity regarding any provision in these regulations, or the procedure to be followed, that interpretation or procedure shall be adopted which appears most equitable, consistent with the general purposes and philosophy of these regulations.

7. Wherever reference is made in these regulations to an official of the University and that official is unable to exercise his or her functions, the person replacing the official shall carry out those functions.

II. *Procedures*

1. Cheating means any dishonest or deceptive practice relating to an examination, and more particularly, but not restrictively, includes the following:

(a) making use of any book, paper, script, writing, drawing or other material not expressly authorized by those conducting the examination;
(b) communicating during an examination with any person other than those invigilating the examination;
(c) attempting to do any of the above. A person in possession of any book, paper, script, writing, drawing, or other material not expressly authorized by those conducting the examination shall be presumed to be attempting to cheat.

2. A student who is suspected of cheating during an examination shall be so informed by the invigilator and be required to leave the examination area immediately. The invigilator shall take charge of the student's examination book as well as of any other evidence relating to the suspected cheating.

3. The invigilator shall then offer the student the option of:

(a) withdrawing from the examination, with the understanding that, if a charge of cheating is not laid or upheld, the student will be enabled to take another examination for the same course; or
(b) continuing the examination under controlled conditions in another location. The student shall be required to write out and sign a statement of the option taken. If the student chooses to continue the examination, the invigilator will provide a fresh examination book for the purpose and will allow additional time for the examination to compensate for any time lost during this process.

4. Any evidence shall be delivered to the Registrar as soon as reasonably possible.

5. If, after the completion of an examination, a person grading that examination finds grounds to suspect a student of having cheated, that person shall deliver to the Registrar a written statement setting out the grounds for the suspicion, together with the student's examination book and any other relevant material.

6. If the Registrar deems it appropriate to lay a charge of cheating, the Registrar shall prepare a precise, written charge, dated and signed, and send it within seven days to the Dean of the Faculty or Division for the program in which the student is registered, as well as to the instructor of the particular course. If the student is not registered in a program, the charge shall be sent to the Dean of the Faculty or Division providing the course.

7. There will be established in each Faculty or Division a panel from which will be drawn the committee that will hear any charge of cheating which is denied by the student charged. This panel will consist of six members of the full-time faculty named by the Faculty Council, and six undergraduate students registered in the Faculty named by the appropriate student association or associations.

8. On receipt of a charge from the Registrar, the Dean of the Faculty or Division shall immediately send a copy of the charge to the student and inquire in writing whether the student admits or denies the charge. The letter from the Dean shall be sent to the student by registered mail at the last address given to the University.

9. The student shall admit or deny the charge in writing within twenty-one days of the mailing of the Dean's letter. The Dean may extend this delay only if the student could not reasonably have acted within the twenty-one days.

10. When the student admits the charge, the Dean shall apply one of the sanctions set out in Section III below.

11. When the student does not admit or does not respond to the charge, the Dean shall arrange for a hearing committee.

12. The hearing committee shall consist of two faculty members and two students named by the Dean from the panel established under II, 7 above, and in addition a fifth member, named by the Dean, who shall serve as chairman.

13. The student and the Registrar, or a delegate of the Registrar, have the right to be present at the hearing of the charge, and to address the committee, but they shall not be present at the deliberations of the committee.

14. The committee shall decide whether or not the student acted as charged, and shall make any comment about the nature or circumstances of the offence that it deems appropriate. Its report shall be in writing and reasoned, and shall be delivered to the Dean.

15. If the committee does not uphold the charge, the Dean shall so inform the student, the Registrar and the instructor of the course.

16. If the committee upholds the charge, the Dean shall apply one of the sanctions set out in Section III below. The Dean shall send a statement of his or her decision together with a copy of the report of the committee to the student, the Registrar and the instructor of the course.

17. The student and the Registrar shall have a right of appeal to Senate against either the decision or the sanction. Notice of such appeal must be made in writing to the Secretary of Senate; in the case of the student within twenty-one days of the decision, and in the case of the Registrar within seven days of the decision. These delays may be extended in exceptional circumstances by Senate.

18. The appeal shall be heard and decided in the manner deemed most appropriate by Senate.

19. In the event that a charge against a student is not laid or is not upheld, and the student has either not continued with the examination or wishes to take a second examination, the Dean and the Registrar shall arrange for such an examination.

III. *Sanctions*

1. Where a student admits or is found to have cheated, the sanction shall be one of the following:

(a) the imposition of a failing grade for the course related to the examination in which the cheating occurred; ineligibility to write a supplemental examination for the course; and the obligation to take and pass the equivalent of one six-credit

course (i.e. one full-course or two half courses) in addition to the total number of credits required for the program. The course to be taken may be specified;

(b) the sanction as provided in sub-section (a) above, and with the obligation to take and pass the equivalent of a further one, two or three six-credit courses in addition to the total number of credits required for the program. The courses to be taken may be specified;

(c) the sanction provided in sub-section (a) or (b) and suspension from the University for the remainder of the year;

(d) the sanction provided in sub-section (c) and suspension for an additional period of not more than one year;

(e) the imposition of a failing grade for the course related to the examination in which the cheating occurred and expulsion from the University.

A year shall begin on September 1 and end on August 31 if the charge relates to an act occurring in the regular session, and from May 1 to April 31 if the charge relates to an act occurring in the summer session.

2. Should the student not be registered in a program, the sanction shall be either the relevant part of (a) or that provided in (c), (d) or (e).

3. If a suspended student fails the year in which he or she was suspended and wishes to be readmitted, that student must apply for readmission.

4. Should a student either admit or be found to have cheated for the second time the student shall be expelled from the University.

5. A sanction of suspension or expulsion is subject to confirmation by the Rector.

16.3.10 REGULATIONS REGARDING PLAGIARISM (UNDERGRADUATE)

I. *General*

1. Plagiarism, for the purposes of these regulations, means the presentation by a student of the work of another person as his or her own. It includes copying, translating and paraphrasing without acknowledgement of the source.

2. Wherever there is doubt or ambiguity regarding any provision in these regulations, or the procedure to be followed, that interpretation or procedure shall be adopted which appears most equitable, consistent with the general purposes and philosophy of these regulations.

3. Wherever reference is made in these regulations to an official of the University and that official is unable to exercise his or her functions, the person replacing the official shall carry out those functions.

II. *Procedures*

1. If an instructor has reason to believe that a student has committed plagiarism, the instructor shall immediately inform the student and discuss the circumstances.

2. After such discussion, the instructor shall:

a) decide that no further action is necessary; or
b) require that the work be resubmitted with appropriate changes; or
c) give the student a failing grade in the work submitted; or
d) give the student a failing grade in the course for which the work was done; or
e) refer the matter to the chairman of the department.

3. If the instructor's decision is that set out in 2 (a) or 2 (b), the matter shall be considered closed. If the decision is that set out in 2 (c) or (d), the student may appeal it to the chairman of the department.

4. Should a student appeal a decision as set out in 2 (c) or (d), the chairman of the department shall:

a) uphold the award of a failing grade; or
b) cancel the failing grade and decide no further action is necessary; or
c) cancel the failing grade, and require that the work be resubmitted to the instructor with appropriate changes.

The chairman's decision shall be final.

5. If the matter is referred to the chairman of the department, as set out in 2 (e), and an appropriate departmental committee exists or the departmental practice is to set up an ad hoc committee, the chairman shall be referred to that committee.

6. If an appropriate committee exists, the committee shall review all the circumstances with the instructor and the student, and shall:

a) decide that no action is necessary; or
b) require that the work be resubmitted with appropriate changes; or
c) decide that a formal charge shall be made against the student.

If the committee's decision is that set out in 6 (a) or 6 (b), the matter shall be considered closed.

7. If the matter is referred to the chairman of the department as set out in 2 (e) and no appropriate departmental committee exists, the chairman shall review all the circumstances with the instructor and the student, and shall:

a) decide that no action is necessary; or
b) require that the work be resubmitted with appropriate changes; or
c) decide that a formal charge shall be made against the student.

If the chairman's decision is that set out in 7 (a) or 7 (b), the matter shall be considered closed.

8. In the event that the instructor is the chairman of the department, the Dean shall appoint another member of the department to act in his or her stead.

9. If either the appropriate committee or the chairman of the department decides that a formal charge shall be made against the student, the chairman shall send that charge to the Dean of the Faculty or Division for the program in which the student is registered. If the student is not registered in a program the charge shall be sent to the Dean of the Faculty or Division providing the course.

10. The formal charge to the Dean shall be made in writing, and be dated and signed by the chairman of the department.

11. The Dean shall send immediately a copy of the charge to the student, inform the student of the procedures and sanctions relating to a formal charge, and inquire in writing whether he or she admits the charge. The letter from the Dean shall be sent to the student by registered mail at the last address given to the university.

12. The student shall admit or deny the charge in writing within twenty-one days of

the mailing of the Dean's letter. The Dean may extend this delay only if the student could not reasonably have acted within the twenty-one days.

13. When the student admits the charge, the Dean shall apply one of the sanctions set out in Section III below.

14. There will be established in each Faculty or Division a panel from which will be drawn the committee which will hear any formal charge of plagiarism. This panel shall consist of six members of the full-time faculty named by the Faculty Council, and six undergraduate students registered in the Faculty named by the appropriate student association or associations.

15. When the student does not admit the charge, the Dean shall arrange for a hearing committee.

16. The hearing committee shall consist of two faculty members and two students named by the Dean from the panel established under II, 14 above, and in addition a fifth member, named by the Dean, who shall serve as chairman.

17. The student and the instructor have the right to be present at the hearing of the charge, and to address the committee, but they shall not be present at the deliberations of the committee.

18. The committee shall decide whether or not the student committed plagiarism, and shall make any comment about the nature or circumstances of the offence that it deems appropriate. Its report shall be in writing and reasoned, and shall be delivered to the Dean.

19. If the committee does not uphold the charge, the Dean shall so inform the student, the chairman of the department and the instructor of the course.

20. If the committee upholds the charge, the Dean shall apply one of the sanctions set out in Section III below. The Dean shall send a statement of his or her decision together with a copy of the report of the committee to the student, the instructor of the course, the chairman of the department, and the Registrar.

21. The student and the instructor shall have a right to appeal to Senate against either the decision or the sanction. Notice of such appeal must be made in writing to the Secretary of Senate within twenty-one days of the decision. This delay may be extended in exceptional circumstances by Senate.

22. The appeal shall be heard and decided in the manner deemed most appropriate by Senate.

III. *Sanctions Relating to a Formal Charge*

1. Where a hearing committee established under II, 16 above finds a student has committed plagiarism, the Dean shall impose one of the following sanctions:

a) the imposition of a failing grade for the course in which the plagiarism occurred; ineligibility to write a supplemental examination for the course; and the obligation to take and pass the equivalent of one six-credit course (i.e. one full-course or two half courses) in addition to the total number of credits required for the program. The course to be taken may be specified.
b) the sanction as provided in subsection (a) above, with the obligation take and pass the equivalent of a further one, two or three six-credit courses in addition to the total number of credits required for the program. The courses to be taken may be specified.
c) the sanction provided in subsection (a) or (b) and suspension from the university for the remainder of the year;
d) the sanction provided in subsection (C) and suspension for an additional period of not more than one year;
e) the imposition of a failing grade for the course in which the plagiarism occurred and expulsion from the University.

A year shall begin on September 1 and end on August 31 if the charge relates to an act occurring in the regular session, and from May 1 to April 31 if the charge relates to an act occurring in the summer session.

2. Should the student not be registered in a program, the sanction shall be either the relevant part of (a) or that provided in (c), (d) or (e).

3. If a suspended student fails the year in which he or she was suspended and wishes to be readmitted, that student must apply for readmission.

4. Should a student either admit or be found to have committed plagiarism for the second time the student shall be expelled from the University.

5. A sanction of suspension or expulsion is subject to confirmation by the Rector.

16.3.11 STUDENT REQUEST COMMITTEE OF FACULTY COUNCILS

Regular Students: Full-Time or Part-Time

Each of the faculties has a Student Request Committee which is authorized to consider applications from students on matters relating to academic regulations.

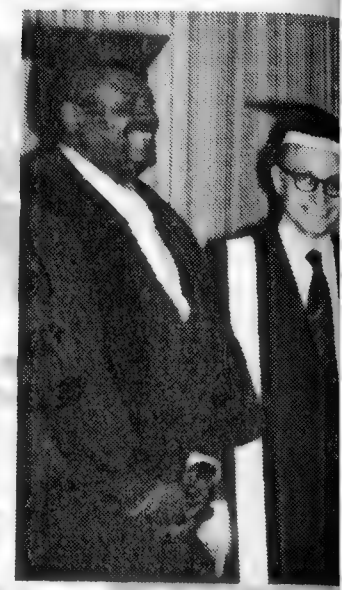
Any undergraduate student seeking adjustment of an academic regulation should apply on the appropriate form available at the following Faculty offices:

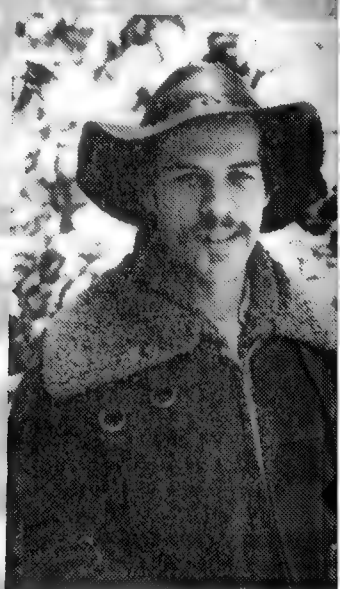
Arts & Science
Asst. Dean of Arts and Science
Fine Arts
Asst. Dean of Fine Arts
Commerce & Administration
Asst. Dean of Commerce
Engineering & Computer Science
Asst. Dean of Engineering

MSP, Special, and Independent Students

MSP and Special students seeking adjustment of an academic regulation should submit requests to the Student Request Committee of their Faculty.

Independent students must submit all requests relating to University regulations to the Registrar and *not to a dean or faculty council.*





SUPERMOM

17 Medals and Prizes

NOTE: This section of the undergraduate calendar is presently under review. Any changes that may affect the prize list for the Spring Graduation 1980 will be announced as soon as possible.

LOVEJOY'S
COLLEGE GUIDE

18 Student Services

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18.1 Department of Physical Education & Athletics

Director
DR. EDMUND F. ENOS

Assistant Directors of Athletics
MR. PAUL ARSENAULT
MR. DOUGLAS DAIGNEAULT
MR. GEORGE SHORT

Co-ordinator of Women's Athletics
MR. MIKE HICKEY

Co-ordinator of Men's Intramurals
MR. ROBERT PHILIP

The Department of Physical Education and Athletics offers a complete and diversified programme to meet the varied interests of today's students. The aim is to provide an opportunity for all students to participate and not just those who play varsity sports.

A comprehensive Intramural programme operates on both campuses. It provides an extensive selection of fitness, team and sport activities for men and women under the supervision of professionally-trained instructors.

The Intercollegiate Varsity programme is primarily for male and female students with playing experience. Graduate level as well as undergraduate students pursuing studies on a full-time basis and meeting Quebec University Athletic Association and the Canadian Intercollegiate Athletic Union requirements are eligible to participate.

The south campus is the focal point of all Physical Education and Sports on the Loyola Campus. This area includes full-length playing fields, and a modern physical education centre complete with an ice arena, gymnasium, weight training and exercise rooms. The Sir George intramural programme is centered in Birks Hall, Victoria School, and in the Downtown YMCA on Drummond St.

Detailed information on physical education and athletic activities is included in the Department's annual Sports Review which is available at the Physical Education Centre and on the Sir George Campus Athletics office located at 1822 de Maisonneuve W. For further information, telephone 482-0320, ext. 730, Loyola Campus, or 879-5840, Sir George Campus.

18.2 Concordia Guidance Services

Director
J. A. SPROULE, M.Ps.Sc.

Associate Director
F. W. DENTON, M.A.

Assistant Director
J. P. HALE, B.A.

Loyola Campus
2490 West Broadway
Phone 482-0320 Local 474

Sir George Williams Campus
1455 de Maisonneuve Blvd. W.
Room H-440
Phone 879-2879

Concordia Guidance Services provides the following: (1) individual and group counselling (2) an information service with special emphasis upon graduate and career planning (3) reading skills development and study skills programmes (4) Canada Employment Centre.

18.2.1 COUNSELLING

Counselling is offered in the following areas:

Academic Counselling: includes course planning, planning a major or honours programme, university familiarization and decisions pertaining to post-graduate training.

Vocational Counselling: the individual is helped to make a realistic career choice based upon his interests, abilities and other needs, reconciled with the available opportunities.

Personal Counselling: many students have problems which are not directly related to the university environment but nevertheless affect their sense of well-being, e.g., family problems, social problems, depression, feelings of isolation. Discussion with a counsellor is usually helpful in clarifying the issues and finding a way of coping with these problems.

18.2.2 GUIDANCE INFORMATION CENTRE

The Guidance Information Centre makes available to students and staff of the university, information on educational and career planning. The major areas of the collection are devoted to directories of education programmes, university calendars, and career choice and job hunting/resume writing books.

18.2.3 READING TRAINING CENTRE

The Reading Training Centre offers several courses a year during the day and evening. These programmes are planned to help the student develop the skills necessary for the maintenance of acceptable academic standards.

The main focus is on the techniques of efficient reading and study skills. Some direction is given, however, in the associated learning skills of listening, note-taking and using the library.

18.2.4 CANADA EMPLOYMENT CENTRE

This service, staffed and operated in cooperation with the Canada Employment Centre, functions to assist students in exploring opportunities for part-time, summer and full-time employment. Notices from employers are posted and students are invited to discuss these with a Placement Officer who will assist in arranging interviews with employers' representatives as appropriate.

Loyola Campus
Centennial Building
Room 020
6935 Sherbrooke St. West
Tel. 489-3885

Sir George Williams Campus
2020 Mackay Street
Tel. 283-5177

18.3 Scholarship and Financial Aid Information

Loyola Campus
FREDA HAFFEY
AD-126
482-0320 Ext. 349

Sir George Williams Campus
MARIE-CLAUDE BRAULT, BA
H-405
879-5983

Financial Aid and scholarship information is available on both campuses of Concordia University.

These offices exist solely to help students find the sources of financial aid available to them; to explain the current regulations and norms of eligibility and to assist students in solving individual budgetary problems.

18.3.1 CONCORDIA WIDE SCHOLARSHIPS

A scholarship is awarded in recognition of outstanding academic achievement.

If a student holding a scholarship decides to change faculty, he will retain the scholarship only on condition that he receives the approval of the Scholarship Committee.

No student may hold more than one scholarship from the university at any one time.

Concordia University Entrance Scholarships

A number of Tuition Scholarships are available to students entering University 1. They are awarded by the Scholarship Committee on the basis of academic achievement during the first three semesters of CEGEP. Applications are available from the Financial Aid offices and must be returned prior to March 1. These scholarships have a value of $1,000.00, and are renewable as long as the same high level of achievement is maintained.

January Entrance Scholarships

A number of scholarships are available to students entering in the January to April semester. Value is $500.00. Renewal will be valued at $1000.00 per year. Deadline for applying is November 15.

C. J. Hewitt Scholarship

From the estate of the late C. J. Hewitt, a number of Entrance Scholarships will be available each year both to regular applicants and children of employees of the Hewitt Equipment Company. Application for these scholarships will be made on the regular Entrance application forms.

Senior Scholarships (60 years of age and over)

A number of scholarships are awarded to students who are 60 years of age or over and who are enrolled in a 90 credit undergraduate degree programme or a graduate programme. Value is $500.00 each. Awards are for one year and are renewable for a maximum of four years.

Awards to Concordia Students in Course

The Arthur Andersen & Company Scholarship. To be awarded to a student entering his/her final year in the Bachelor of Commerce program and majoring in Accountancy. To be awarded on academic merit and demonstrated leadership qualities in the classroom and in student activities. Value: full-tuition.

The Stacie-Lee Bessner Memorial Scholarship: One award to a student entering second or third year in the Faculty of Commerce.

Institute of Internal Auditors, Montreal Chapter Scholarship: Awarded to a student majoring in accountancy for outstanding performance in their auditing courses.

The BP Canada Scholarships: To be awarded to two students in Mechanical Engineering on the recommendation of the Faculty of Engineering. Value: $500 each.

Canadian Women's Press Club Montreal Branch Scholarship: A stipend of about $500.00 offered annually to a journalism student entering second or third year. Selection will be made by a committee drawn from the faculty and the profession.

Pauline Donalda Memorial Scholarship: One award valued at $500.00 to a student in the Music Department of the Faculty of Fine Arts.

The General Motors of Canada Ltd. Scholarships: Two scholarships of $1,000.00 each are offered to students one in second year and one in final year in the Faculties of Engineering, Business Administration, Commerce or Finance. Preference will be given to a student interested in a career in industry. An opportunity is also provided for a summer work assignment. The award will be based on academic merit, outside interests and career objectives.

Quebec Iron & Titanium Corp. Scholarship: A scholarship valued at $800.00 to be awarded to a third year Mechanical Engineering student.

Scholarships Offered by Companies, Associations and Societies

Harry F. Bennett Education Fund: The purpose of this Fund is to make loans to deserving students who need financial assistance to enable them to study Engineering Sciences at university level and who have proved themselves by successfully completing their first year in Engineering or the equivalent. The Engineering Institute of Canada, 2050 Mansfield Street, Montreal, Quebec.

The Building Trades Joint Committee Scholarship: A five-year scholarship is available to a student entering into the Faculty of Engineering. This award covers full tuition fees for five years subject to a satisfactory academic standing. Applicants must be the sons of employees engaged in the construction industry in the District of Montreal. Mr. Armand Brisebois, Personnel and Office Manager, The Construction Industry Joint Committee of the Region of Montreal, 3530 Jean-Talon St. West, Montreal, Quebec.

Canadian Federation of the Blind Bursary: Bursary assistance is awarded to a registered blind person or his parents. In awarding this bursary, preference will be given to members of the Canadian Federation of the Blind and in particular to those people domiciled in the Province of Quebec. Mr. Gordon L. Mc. Gilton, Corresponding Secretary, Montreal Branch, Canadian Federation of the Blind, 1172 St. Matthew Street, Montreal, Quebec.

Canadian Forces Benevolent Funds: The Canadian Forces Benevolent Funds consider applications from veterans for bursaries on behalf of their sons or daughters who are full-time students. Apply to the nearest local office of the Department of Veterans' Affairs.

Celanese Canada Limited: Several entrance scholarships in any course leading to a baccalaureate degree offered to the children of employees or annuitants of Chemcell or its subsidiary companies. Further information and application forms should be requested directly from the Director of Awards, Association of Universities and Colleges of Canada, 151 Slater St., Ottawa, Ontario. Completed forms, in triplicate, are to be sent directly to the same address to arrive not later than June 1st.

Consumers Glass Company Limited University Education Awards Plan: Open to children or wards of employees and retired employees of Consumers Glass Company Limited for a full-time course of study in any Canadian university or college recognized by the Association of Universities and Colleges of Canada. Value: $750.00 per year for a maximum of four academic years, or until a first degree is obtained, whichever occurs first. Awards are automatically renewed provided the students establish continuing eligibility and successfully complete the preceding academic year. Further information and application forms, which must be submitted by June 30th, may be obtained from the Director of Awards, Association of Universities and Colleges of Canada, 151 Slater St., Ottawa, Ontario.

Continental Can Company Limited (Canadian Scholarship Plan): The Carie C. Conway Scholarship is offered to the children or grandchildren of the Company's employees. Application forms should be requested from the plant managers or district sales managers. The completed forms, in triplicate, are to be sent to the Director of Awards, Association of Universities and Colleges of Canada, 151 Slater St., Ottawa, Ontario.

The Continental Insurance Companies (Canadian Scholarship Plan): University entrance scholarships in courses leading to baccalaureate degrees may be applied for by the natural or adopted children, stepchildren or legal wards of one of the Continental Companies operating in Canada. Further information and application forms may be obtained from the Director of Awards, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario. Applications must be sent directly to the same address no later than June 1st.

Gulf Oil Canada Limited: Several university entrance scholarships are awarded annually to the children, natural or adopted, of employees and annuitants of Gulf of Canada and its subsidiary companies in Canada. Further information and application forms should be requested from the Director of Awards, Association of Universities and Colleges of Canada, 151 Slater St., Ottawa, Ontario. Completed applications, in triplicate, are to be sent directly to the same address to arrive not later than June 1st.

Imperial Oil Higher Education Awards: Imperial Oil Limited offers, annually, free tuition and other compulsory fees to all children or wards of employees and annuitants who proceed to higher education courses. The courses may be taken at any Canadian university or other approved institution of higher learning. Each award is tenable until the attainment of a first degree or for a maximum of four years. To be eligible a student must attain an average of 70% or more in a college year upon which application is based. Further information and application forms may be obtained from The Secretary, Committee on Higher Education, Imperial Oil Limited, 111 St. Clair Avenue West, Toronto, Ontario.

Iron Ore Company of Canada (Scholarship Plan): A limited number of entrance scholarships for study towards a first degree are offered to children or wards of employees or annuitants or deceased annuitants of the parent or subsidiary companies. Further information and application forms should be requested from the Director of Awards, Association of Universities and Colleges of Canada, 151 Slater St., Ottawa, Ontario. Completed applications, in triplicate, are to be sent directly to the same address to arrive not later than June 1st.

Lebanese Syrian Canadian Association: The Lebanese Syrian Canadian Association award annually a series of scholarships to students of Lebanese, Syrian descent. The Chairman, Scholarship Committee, Lebanese Syrian Canadian Association, 40 Jean-Talon East, Montreal, Quebec.

Leonard Foundation Scholarships: Applications for scholarships must be filed before March 31st of each year. Preference in the selection of students for scholarships shall be given to the sons and daughters of clergymen, school teachers, Officers, Non-Commissioned Officers and Men (active or retired) who have served in Her Majesty's Military, Naval or Air Forces, graduates of the Royal Military College of Canada, members of the Engineering Institute of Canada, members of the Mining and Metallurgical Institute of Canada. Mrs. R. B. White, Senior Trust Officer, Canada Permanent Trust Company, 253 Bay Street, Toronto 1, Ontario.

Quebec Cartier Mining Company: A limited number of four-year or first degree entrance scholarships are offered to candidates whose parents or legal guardians have been employees of the company for at least four years. Further information and application forms may be obtained from the Director of

Awards, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario.

R.C.A.F. Benevolent Fund: The Royal Canadian Air Force Benevolent Fund has made provisions for loans for the benefit of former R.C.A.F. personnel or their dependents. Apply to R.C.A.F. Benevolent Fund, 685 Cathcart Street, Montreal, Quebec.

Texaco Canada Merit Scholarship Programme: Several entrance scholarships to provide up to a maximum of the first four years of undergraduate study may be applied for by dependent children, natural or legally adopted, of employees or annuitants or of deceased employees who died while employed by Texaco Canada. Application forms are obtainable by an employee from his supervisor. Completed applications, in triplicate, must be sent to the following address to arrive not later than June 1st: Director of Awards, Association of Universities and Colleges of Canada, 151 Slater St., Ottawa, Ontario.

Financial Aid

Government Loan Plans: In all the Canadian Provinces a basic qualification for financial aid is that the applicant be a Canadian citizen or landed immigrant with one year's residence and domicile in the province to which he is applying. This would be the province where his/her parents make their home.

The Province of Quebec: The Province of Quebec has an extensive program of student loans and bursaries available to students. For applications contact the Director, Financial Aid.

Physically Handicapped: Students in any faculty who are Canadian citizens and have been resident and domiciled in Quebec for two years, may apply for an outright grant if they have suffered from poliomyelitis, tuberculosis, certain forms of cardiac trouble, or some other physical disability. Apply to the Director, Financial Aid.

Ontario: Apply to the Director, Financial Aid.

New Brunswick: Apply to the Department of Youth and Welfare, Fredericton, New Brunswick.

For the Provinces of Alberta, British Columbia, Manitoba, Newfoundland, Nova Scotia, Prince Edward Island and Saskatchewan, write to the Provincial Department of Education.

Children of War Dead (Education Assistance) Act: Under this Act fees up to $800.00 and monthly allowances are provided for children of Canadian war veterans whose death was attributed to military service in World War I, World War II, or the Korean War. Apply to the Superintendent of Welfare Services at the nearest DVA District Office.

United States Students: Students coming to a University outside the United States may apply for a Higher Education Loan Plan loan through their home town bank. These forms must be sent to Concordia University to be filled in. They should be sent to the campus where you will register.

Maine and Oregon — Apply through the United Student Aid Fund, form 1070, available at your bank.

Students from other states — Apply to the Higher Education Assistance Corporation. Applications are available at your bank.

Due to the tight money situation, it is essential that you apply to the bank where your parents have an account, as early as possible.

NOTE: APPLICATIONS FOR GOVERNMENT AID SHOULD BE MADE AS SOON AS POSSIBLE. DO NOT WAIT FOR REGISTRATION.

Bursaries

Due to the greatly increased demand for financial aid, all students must apply first to their own province and/or state and accept maximum loan and bursary aid from these sources. Thus, Concordia University funds cannot normally be used to compensate for a student's failure to apply for and accept the maximum government assistance available to them. If a student needs more than his maximum government assistance, a bursary may be granted.

The basic principle in awarding financial aid is that the primary obligation to pay for an education rests with the students and their parents. This means that a student is expected to have savings from his summer employment and that parents must contribute according to their ability.

The Financial Aid Offices exist solely to assist students and to help them find financial aid should they need it.

IBM Canada Bursary Programme: IBM Canada Ltd. makes an annual grant for bursaries to students registered in a full-time course at the university who have satisfactory standing and who demonstrate financial need. Application may be made through the Awards Office.

The Birks Family Foundation has established a plan of annual contributions to the Student Aid Fund of recognized Canadian Universities for the creation of the Birks Family Foundation Bursaries. The bursaries are awarded by the Foundation on the recommendation of the University Scholarship Committee and are not restricted to faculty or year and may be renewed. The number and amount of such awards may vary annually, depending upon the funds available for the purpose from the Foundation.

B'nai B'rith Hillel Foundation: A limited number of bursaries are available. Amount of each bursary granted from this fund may vary according to the need of the deserving student in any year or any faculty. Apply to Hillel House.

Canadian Italian Business & Professional Men's Association: Bursaries are awarded to students of Italian origin or descent by the Association. Apply to the President, Trust Fund Committee. Application forms may be obtained from the Association at 892 Cremazie Blvd. W., Montreal.

National Council of Jewish Women of Canada, Montreal, Section, Bursaries: A limited number of bursaries are awarded by the Council upon the recommendation of the Financial Aid Director. Academic standing and financial need are considered in making the award. Although there is no legal obligation, the Council hopes that the holder will, if possible, return the money at some future time so that other students may be helped.

Lebanese Syrian Canadian Association: The Lebanese Syrian Canadian Association award annually a series of scholarships to students of Lebanese, Syrian descent. Apply to The Chairman, Scholarship Committee, Lebanese Syrian Canadian Association, 40 Jean-Talon East, Montreal, Quebec.

Financial Aid for Overseas Students

The scholarships, bursaries and loans offered by companies, associations, societies, foundations, departments of education and other government agencies are generally not available to students from overseas. Therefore, students studying on a student visa who require financial aid should contact their own department of education.

The Canadian International Development Agency offers training assistance to most developing countries with which Canada has a cooperation agreement; however, the student must be nominated by his/her own government.

Students should make sure of adequate finances before coming to Canada.

A minimum of $6,000.00 Canadian would be required for one academic year. If a student does not plan to return home during the summer, four months of living expenses as well as summer tuition should also be provided for.

Concordia University Graduate Fellowships

Graduate fellowships are awarded on the basis of academic excellence to students enrolled full-time in a program leading to a master's or doctoral degree at the University. No services are expected from the student in return.

Renewable Fellowships for full-time studies in the amount of $6,000 per year plus tuition fees are open to students enrolling in doctoral programs or master's programs of more than one-year duration. Continuation of the award beyond the first year is subject to satisfactory academic performance. Fellowships may be held for a maximum of three years.

One-Year Fellowships normally are tenable only by full-time students enrolling in master's programs of one-year duration. They are of two kinds:

(a) David J. Azrieli Fellowships in the amount of $6,000 plus tuition fees, financed by a donation from Dr. David J. Azrieli;

(b) University Fellowships in the amount of $5,000, the regular tuition fees to be paid by the student.

Province of Quebec Graduate Fellowships

The Minister of Education of the Province of Quebec has a generous programme of Graduate Fellowships available to students presently residing in Quebec. It is important to stress that these Fellowships are based primarily on High Academic Standing. Candidates requiring financial assistance and not having a high academic record should apply to the Province of Quebec, regular loans and bursary department. Forms are available from the Financial Aid Office on each campus.

Guidance Information Centre

The Centre collects information and application forms, if available, on loans, bursaries, scholarships, fellowships, grants-in-aid, etc. This includes aid offered by private foundations, associations and companies, from both Canadian and foreign sources.

Liaison Office

Opportunities exist for some students to assist the Liaison Office visiting CEGEPs and High Schools. Other help is required by the office from time to time during the year assisting in mailing, packaging and typing. Payment varies according to project. For more information contact the Liaison Office, Room N211 (Norris Building) 879-4233, or 2496 West Broadway 482-0320, Ext. 245, 264, 572.

18.3.2 LOYOLA CAMPUS ONLY

Scholarships:

Funded by The Loyola Foundation and restricted to Loyola Students by the donors.

The Malone Scholarships

The Malone Scholarships are awarded to students on the Loyola Campus who have combined high academic achievement with leadership ability, commitment to and involvement in the community. Three scholarships. Value full-tuition. One in each year.

Endowed Scholarships

Avon Products of Canada Scholarship: Book Bursary $50.

The Lilley F. Barry Scholarships: Number: four. Value: $500 each.

The Gordon Bennett Memorial Scholarship: From the estate of the late Mr. Gordon Bennett. Number: 7. Value: $500 each.

The Charles J. Brown Scholarship: Donated by Mr. William J. Brown in memory of his late father. Number: Two. Value: $400 each.

Ursula Carling Scholarship: From the estate of Mrs. U. Carling. Number: Two. Value: $500 each.

The Francis J. Dowling Scholarship: From the estate of the late Francis J. Dowling. Number: One. Value: $150.

The Michael and Patricia Kindellan Memorial Scholarship: Established by the Kindellan Family. Number: One. Value: $200.

The Kenneth J. McArdle Memorial Scholarship: Donated by Mrs. Mary McArdle. Offered to students in Science. Number: Two. Value: $400 each.

The R. C. Moore Memorial Scholarship: Open to a Loyola Campus student who does not already possess a scholarship, enrolled in either Honours Mathematics or Specialization in Mathematics (formerly Major in Mathematics) and entering U3 to be awarded on the basis of the marks obtained in Mathematics courses taken during U1 and U2. Number: One. Value: $150.

Mrs. John Moriarty Scholarship: From the estate of Mrs. John Moriarty. Number: One. Value: $300.

The Winnifred O'Reilly Memorial Scholarship: From the estate of Mrs. W. O'Reilly. Number: One. Value: $200.

The Clarence G. Smith Memorial Scholarship: From the estate of Mrs. Elizabeth M. Smith in memory of her son, Clarence G. Smith. Number: Two. Value $500 each.

St. Ignatius Men's Association Scholarship: Donated by the Members of the Asso-

ciation. Number: One. Value: $200. Open to students in Arts.

The James Weber Memorial Scholarships: Awarded in memory of a member of the Class of 1970. Number and value varies.

Bursaries

The Loyola News Memorial Bursary: Awarded annually to a student who has combined community involvement and a 70% average. The student may apply or be nominated. Number: One. Value: $450.

The George V. Uihlein Memorial Bursary: Awarded annually to a student who has an outstanding record in non-athletic extra-curricular activities and not less than a "B" average. The student may apply or be nominated. Number: One. Value: $100.

Touche Ross & Co. Bursary: Awarded annually to a student who is completing his penultimate year and will be entering his final year, majoring in accountancy in the Faculty of Commerce, and who intends to pursue the qualification of Chartered Accountant. Number: One. Value: $200.

Part-time Students Scholarship/Bursary Fund: The CUPTSA has placed funds on deposit with the Foundation to enable part-time students to receive a limited number of scholarship/bursaries. Apply to Director, Financial Aid.

Loan Funds

Through the generosity of the Birks Family Foundation, the B'nai B'rith Hillel Foundation and the National Council of Jewish Women, a certain amount of money has been placed with Loyola Campus to help students who demonstrate need and responsibility. Apply to Director, Financial Aid, Loyola Campus.

18.3.3 SIR GEORGE WILLIAMS CAMPUS ONLY

Undergraduate Scholarships

Note: These awards are made on the basis of academic standing and recipients are selected from the academic honors list. No applications are necessary unless otherwise indicated.

Association of Alumni Presidents' Scholarship: A scholarship in the amount of $100.00 is awarded to any student in any year or faculty on the basis of outstanding academic achievement during the preceeding academic year.

Compton-Lamb Memorial Fund: This scholarship established in memory of the late Neil Compton and Sidney Lamb shall be awarded annually in the Department of English. The recipient must be registering in the last five courses of an English Honors Programme. Application should be made to the Chairman, Department of English.

Henry F. Hall Scholarship: Established by the Faculty and Staff of Sir George Williams University in recognition of the many years of service given to the University by the late Dr. Henry F. Hall. This scholarship is awarded annually on the basis of merit to a student in any faculty of the University.

Lucille Irvine Memorial Scholarship: This scholarship is awarded annually on the recommendation of the Chairman, Department of Psychology to an outstanding student of Psychology. This scholarship was established by Mrs. William Broidy in loving memory of the late Lucille Irvine, a devoted teacher and a former member of the university staff.

Kodak Scholarship: These scholarships will be awarded to Cinema students of outstanding merit upon the recommendation of the Faculty of Fine Arts.

Helen McNicoll Art Prize: This prize is to be awarded in alternate years to third year students who have shown exceptional talent in Visual Arts and to third year students who have excelled in Art History (preferably Canadian or North American). Both selections are to be made upon the recommendation of the Faculty of Fine Arts. Value according to funds on hand.

Myer F. Pollock Scholarship: Awarded annually to a student in the Faculty of Engineering on the basis of high Scholastic achievement. The value of this award fluctuates depending on the current interest rates.

The P.T.R. Pugsley Memorial Scholarship: Established by friends of the late Professor Pugsley to commemorate his many years of service as senior Professor of the Faculty of Commerce of Sir George Williams University. The scholarship of $150.00 is awarded annually to an outstanding student in the Faculty of Commerce.

Weldon Scholarship: Awarded annually to a deserving student in the Faculty of Engineering. The value of this scholarship fluctuates depending on current interest rates.

Zeller's Scholarship: One scholarship of $100.00 to be awarded on the basis of high scholastic achievement in the third year of the Commerce degree curriculum.

Undergraduate Scholarship-Bursaries

Note: These awards are made on the basis of financial need and high academic standing. Applications for these awards should be forwarded to the Financial Aid Officer unless otherwise stated.

Association of Alumni Scholarship-Bursary: $100.00 is awarded annually to an undergraduate student in any faculty on the basis of need and academic standing.

Joel Birenbaum Memorial Bursary: This bursary of $450.00 is awarded each year, in memory of Joel Birenbaum, a student of Sir George Williams University. This award will be made to a needy, worthy student in the Science Division. The value of this bursary may fluctuate depending on the current interest rates.

Donald Buchanan Scholarship/Bursary: This award should be based on academic achievement coupled with financial need. Awarded to a student in any Faculty.

Henry I. Chinks Memorial Scholarship: Awarded annually on the basis of need and academic standing to an evening student in the Faculty of Science, in the field of Chemistry. Recipient is chosen by the Chairman, Department of Chemistry.

Engineers Wives Association Bursary: This fund was established by the Engineers Wives Association to be awarded to needy students, preferably in 1st year Engineering. Value of $200.

Professor James Gilchrist Finnie Scholarship-Bursary Fund: A sum of money to be made available annually to needy and deserving students entering their final year. These bursaries shall be awarded at the discretion of the Financial Aid Committee.

Alvin J. Guttman Scholarship-Bursary: A sum of $100.00 is available annually to a student from Africa or Asia.

Michael Hendriks Memorial Scholarship-Bursary: This award shall be granted to a final year student in the Faculty of Fine Arts based on academic excellence and financial need.

Joseph Gilbert Joyce Memorial Scholarship: This scholarship or bursary shall be awarded to a part-time student in any faculty or year. The basis of award shall be academic standing, financial need and promise in his chosen field of study. The late Rev. J. G. Joyce, during his twenty-four years' ministry at Verdun United Church, maintained a deep interest in the evening division of the University. This scholarship is established according to his conviction that knowledge and higher education should be available to those who seek to make a creative contribution to the development of mankind.

Marsh & McLennan Centennial Scholarship: The Marsh and McLennan Limited Centennial Scholarship or bursary shall be awarded annually to an undergraduate student who has completed at least one year at Concordia University, Sir George Williams Campus. Selection shall be made based upon need and academic standing. (Preference will be given to a Commerce student.)

Manual Life Scholarship/Bursary: Value of $750. Is to be awarded to a student entering final year in undergraduate programme, majoring or honouring in Sociology. This award is based on academic standing and financial need.

Nathan H. Messer Scholarships: Two scholarship-bursaries shall be awarded annually to needy, worthy students entering their final year and majoring or honoring in Accountancy.

The Tony Robinson Career Enhancement Scholarship/Bursary: To be awarded to an applicant forty five years of age or older who plans to engage in full-time or part-time studies toward an undergraduate degree or diploma.

The applicant may be a landed-immigrant or Canadian citizen who needs to engage in a university program to change or upgrade his/her career qualifications, or a person who had an interruption in his/her university program, and now wishes to continue.

Applicants for this scholarship assistance in the amount of $150. will be considered on the basis of merit and financial need.

Walter Stenhouse Bursary: This bursary of $75.00 established by Mrs. E. Pavey and Mrs. J. Tombs, and awarded under the auspices of the Arts Club of Montreal, is available annually to a final year student in the Faculty of Fine Arts. Apply to the Fine Arts Faculty.

A number of scholarship/bursaries are to be awarded through the generosity of an anonymous donor to students in the Arts division of the Sir George Williams Campus.

Undergraduate Bursaries:

Note: These awards are made on the basis of financial need subject to a passing grade. All applications should be submitted to the Financial Aid Officer unless otherwise indicated.

Birks Family Foundation Bursaries: These bursaries are available to students recommended by the University, in any faculty. They may be renewed annually until graduation to successful students. The number and amount of awards may vary from year to year depending on the funds available from the Foundation.

The Ethel Campbell-P.E.O. Memorial Bursary: Established by Colin C. Campbell in loving memory of his wife, Ethel May Routledge Campbell, and in recognition of her dedication to the aims, objectives, and the moral principles of the P.E.O. Sisterhood. This award is to assist a female student toward the financing of her university programme.

The J. P. Copland Memorial Bursaries: To be awarded on the basis of financial need and academic standing.

St. Andrew's Society Bursary: $200.00 — Established by the St. Andrew's Society of Montreal, for a needy student, preferably of Scottish blood, proceeding to a degree. Administered by the St. Andrew's Society. Apply: Director, Financial Aid.

Theodore Ronis Memorial Bursary: This bursary of $50.00 is established by the friends of the late Theodore Ronis to perpetuate the memory of his friendship through the annual gift of a bursary to a deserving student. The recipient should be studying perferably but not necessarily towards a Bachelor of Commerce degree, and be a male student.

Royal Albert Lodge Bursary: The sum of $400.00 to be awarded as scholarships and bursaries to a) children of members of the Royal Albert Lodge, b) children of members of other Masonic Lodges. If neither A or B qualify, any worthy student may apply and receive the scholarship or bursary.

Student Loan Fund

The Sir George Williams Loan Fund is administered by the Office of the Dean of Students. Its operation is dependent upon the availability of funds. The Fund provides students with short-term financial assistance. Students are welcome to use the Fund as many times as is necessary; however, they may not have two loans outstanding at any one time.

18.4 Student Life and Student Services

Loyola Campus

Dean of Students
Brian T. Counihan, BA MEd

Assistant Dean
Bluma Litner, BA MA

Financial Aid
Freda Haffey

International Student Adviser
William L. Loucks, BA

Sir George Williams Campus

Dean of Students
Magnus Flynn, B.Com

Assistant Deans
Douglas Insleay, MSc
Joan Richardson, BA

Financial Aid
Marie-Claude Brault, BA

International Student Adviser
David Chan, BFA

18.4.1 STUDENT LIFE AND STUDENT SERVICES

Many para-academic and out-of-class programmes are organized on each campus under the auspices of the Dean of Students. These programmes are designed to enrich students' cultural and social life and broaden their university experience.

Also available are special services such as legal aid, health centres, and housing bureaus.

The Concordia Council on Student Life, a body responsible for student service policies and budgets, studies the range of student life on both campuses. It is composed of 15 students, 5 faculty members, 10 members of the student services staff, and one non-voting member of the Board of Governors. Its meetings are open to all members of the university community.

18.4.2 PROGRAMME DEVELOPMENT

Programme Development explores the area of education and the process of learning outside the classroom. A number of on-campus workshops and sessions are sponsored each year.

The *Lacolle Centre for Educational Innovation* is an off-campus facility located 40 miles from Montreal near Lacolle, Quebec. It provides an environment in which students, faculty and staff may explore new areas of learning outside the confines of the classroom.

The Montreal Lacolle Centre office is at 2492 West Broadway, Telephone 482-0320, ext. 344/494.

18.4.3 SOCIAL AND CULTURAL ACTIVITIES

Orientation

Orientation is designed to familiarize new students with the various services and facilities available to them, and to help new students resolve any problems which may be encountered during their introduction to university life.

Social and Cultural Activities

Among other social and cultural activities available are Lunchtime Listening, a Light Entertainment Series, and a Workshop which offers instruction in photography and silk screen printing.

There is a students' cafeteria and pub on each campus. The Loyola Campus Centre also provides lounge facilities and a games room.

18.4.4 HEALTH SERVICES

The Health Centre is staffed by registered nurses and doctors and is run on a clinic programme. It is open Monday through Friday with a varying schedule of doctor coverage. Multiple, paramedical, and referral agencies in the immediate downtown area are utilized, as well as the general hospitals.

To be seen other than in an emergency situation or for an acute problem, please telephone for an appointment. (Generally there is only one day's wait).

Services of the Health Centre are available to all staff, students and faculty members, full or part-time.

Loyola Campus

Centennial Building
Telephone: 482-0320 ext. 480
Office Hours: 9:00 a.m. to 7:00 p.m. Monday to Thursday
9:00 a.m. to 5:00 p.m. on Friday
Closed from 12:00 a.m. to 1:30 p.m., Monday to Friday, except for emergencies.

Sir George Williams Campus

2145 MacKay Street
Telephone: 879-4010, 4011, 4012
Office Hours: 9:00 a.m. to 10:00 p.m. Monday, Tuesday, Thursday during University terms and Summer sessions.
9:00 a.m. to 8:30 p.m. Wednesday
9:00 a.m. to 5:00 p.m. Monday to Friday at all other times.

18.4.5 LEGAL AID

Legal advice and help are offered to all students who may require assistance on matters relating to their legal rights. An appointment to see a lawyer can be arranged on either campus.

Commissioners of Oaths are also available.

Loyola Campus	Sir George Williams Campus
Legal Information Office	Dean of Students Office
Hingston Hall, Room 420	Hall Building, Room 405
Telephone 482-0320, ext. 512	Telephone 879-5980

18.4.6 INTERNATIONAL STUDENTS

International Students' Health and Accident Insurance: Students who are neither Canadian citizens nor landed immigrants are not eligible for the provincial medical programme. The high cost of hospital care in Quebec has prompted Concordia to arrange for an insurance policy which covers hospital expenses up to $5000.00 incurred as the result of accidental injury or an illness. The premium for this policy is approximately $160.00. This policy is compulsory for all International Students attending Concordia as full-time students. The plan provides either single or married coverage. For details about the coverage, contact the Dean of Students Office.

International Students' Finances: PLEASE NOTE THAT ACADEMIC EXPENSES, INCLUDING TUITION AND OTHER COMPULSORY FEES FOR INTERNATIONAL STUDENTS ARE APPROXIMATELY $875.00 PER SESSION OR $1750.00 FOR THE SEPTEMBER TO MAY ACADEMIC YEAR. IMMIGRATION REGULATIONS NORMALLY DO NOT PERMIT STUDENT VISA HOLDERS TO ACCEPT ANY FORM OF EMPLOYMENT DURING THEIR STUDIES IN CANADA. A guideline of expenses which a student may expect to incur, in addition to his tuition fees, follows: (It should be noted that these figures can be considered minimal).

Books and Supplies	$ 300
Lodging	$1200
Food	$1452
Insurance	$ 160
Clothing	$ 500
Miscellaneous	$ 500
Plus tuition fees	$1750
Cost for one academic year (approximately)	$5862

These costs have been calculated on the value of Canadian currency and cover only the 8 month academic year.

International students are expected to present evidence to immigration authorities that they have adequate funds for their studies in Canada.

CONCORDIA OR THE CANADIAN GOVERNMENT DOES NOT GIVE FINANCIAL ASSISTANCE TO INTERNATIONAL STUDENTS.

YOU MUST BE A CANADIAN CITIZEN, OR LANDED IMMIGRANT, OR HOLD A VALID WORK PERMIT IN ORDER TO WORK IN CANADA.

18.4.7 RESIDENCE AND HOUSING

RESIDENCE — Loyola Campus

On campus accommodation is available for 240 day division students. The versatile facilities can house students in a traditional dormitory style or apartment-suite style room; there are both co-ed and single sex floors.

While every effort is made to meet students' requests for single rooms, or for particular rooms or halls, assignments can be made only as space allows. With the rooms on campus very limited, acceptance to the University does not guarantee admissions to residence. A separate application for on-campus housing must be sent to Mr. David Chanter, Director of Housing, 156 Hingston Hall, Loyola Campus, Concordia University, 7141 Sherbrooke Street W., H4B 1R6.

Residence Fees

General: Rates for rooms are the same at both Hingston Hall and Langley Hall. These rates do not include meals. Meals may be contracted for separately.

RESIDENCE	SINGLE	DOUBLE
Room*	$ 950	$ 850
Activity Fee*	25	25
Damage & Development Fee*	15	15
Damage Deposit (refundable)	10	10
TOTAL	1,000	900

**Payable at registration and subject to change*

A room deposit of $50 must accompany each application and will be deducted from the payment due on entrance. This does NOT guarantee a room. DO NOT ASSUME THAT YOU ARE ACCEPTED INTO RESIDENCE UNTIL YOU HAVE RECEIVED A LETTER OF ACCEPTANCE FROM THE RESIDENCE OFFICE.

The money will be refunded if the student is not accepted or cancels the room reservation by August 15. Students cancelling after the August 15 deadline will forfeit the $50 deposit.

The room contract covers the rental of linen, blankets and pillows.

Residence fees may be paid in two installments. The first installment covering the first term, including compulsory fees, must be paid at registration. The second must be paid before January 10.

No student will be allowed into residence until his or her account has been settled, and a receipt covering at least the first term must be shown to the Director of Housing.

Fees do not cover the Christmas holidays. Students who intend to remain in residence over the holidays are required to apply to the Director of Housing by December 1st. There is an extra charge for remaining in residence in this period.

Cheques should be made payable to Concordia University. In cases where cheques are returned to the University marked "Non Sufficient Funds", there will be a $5.00 charge. A $15.00 surcharge will be added to all fees unpaid on January 15. Post-dated

cheques will not be accepted.

The University reserves the right to make changes without notice in the published scale of fees.

To ensure favourable consideration, your application should reach the Director of Housing before June 1.

OFF-CAMPUS HOUSING

Students who wish to live off-campus may consult the off-campus housing service, which provides a listing of available rooms and apartments.

Loyola Campus	**Sir George Williams Campus**
Hingston Hall	Office of the Dean of Students
Room 156	Hall Building, Room 405
Telephone 482-0320, ext. 528/529	Telephone 879-5981

CHILD CARE

Child Care Services are offered for children of students, faculty and staff. Parents may enroll children 2½ to 5 years of age in the Child Care Centre located at 2305 St. Marc St. Application forms and details may be obtained at the information desk in the Hall Building or at the Centre. Telephone 879-4577.

18.4.8 CAMPUS MINISTRY

A major concern of the campus ministry is to deepen personal awareness and awaken a sense of social responsibility both within the university community and outside.

During the academic year chaplains representing different religious heritages organize various programmes of interest to the university community and are also available for personal religious guidance and counselling.

Loyola Campus	**Sir George Williams Campus**
Belmore House	Hall Building, Room 333
3500 Belmore Ave.	1455 de Maisonneuve West
Telephone 484-4093	Telephone 879-4551

18.5 Rights and Responsibilities — Ombudsmen's Offices

CODE OF CONDUCT (NON-ACADEMIC) — CONCORDIA UNIVERSITY

PART I

General

1. The Concordia University Code sets out regulations and procedures for handling formal complaints made by one member of the University against another member either personally or on behalf of the University. The ombuds operation is part of the code, and the whole is subject to a supervisory board.

2. The code applies to all the premises of the University, whether owned or rented, and also to activities conducted elsewhere by the University or by a body responsible to the University.

3. The code applies to all students, faculty and staff of the University, whether full-time or part-time. Both independent and Continuing Education students are included. However, persons working on University premises under contractual agreement between the University and their direct employer, such as the employees of catering and maintenance services, do not come within the code.

4. The code does not replace or supersede the terms of tenure and associated regulations, the University grievance procedure, or any collective agreement signed by the University. The code does not replace or supersede any of the academic regulations of the University or the regulations of the University library. However, the mandate of the ombuds office includes the right of inquiry into the application of any regulations apart from those covered by a collective agreement with a certified bargaining unit.

5. Disciplinary authority in the University is vested in the Board of Governors. It remains the duty, as well as the right, of faculty members and administrators to exercise such authority in areas or matters within their own jurisdiction. Faculty members are expected to take whatever immediate action is needed to ensure the continuing order of their courses and administrators to take whatever immediate action is needed to ensure the proper functioning of the services or areas for which they are responsible.

6. The Rector, as chief administrative officer of the University, and only the Rector or his duly appointed delegate, has the right to suspend temporarily a student or member of the faculty or staff consequent upon action take in line with paragraph 5. In the event of such a temporary suspension, appropriate procedures for final disposition of the situation will be set in motion as soon as possible.

7. Although faculty members or administrators may take immediate action of the kind referred to in paragraph 5 above, a person against whom such action is directed and who believes the action unjustified may have recourse to the complaint procedures.

8. All those who study, teach or work at the University are subject to the laws of the land, and have recourse to those laws. The same holds true for the University as a corporate entity. Should an act appear to infringe an individual's legal rights, that individual can decide whether to take legal action irrespective of whether recourse has been had to the provisions of this code. Similarly, the University, acting through its authorized representatives, has the right at any time to take whatever legal action is deemed appropriate.

9. Should there arise doubt or ambiguity regarding any provision in these regulations, or the procedure to be followed, that interpretation or procedure shall be adopted that appears most equitable, consistent with the philosophy and general purposes of the code.

Governing Principles

1. The University is an institution of higher education dedicated to the pursuit of truth and to the advancement and dissemination of knowledge. All those who study, teach or work at the University must be concerned with maintaining the freedoms essential for those purposes, notably the freedoms to teach; to engage in research and to create; to learn; to study; to speak freely; to associate and to assemble; to write and to publish. The rights deriving from these freedoms cannot be maintained unless related responsibilities are accepted.

2. The University has the rights of a duly incorporated institution of higher education, and it has responsibilities to those who are part of it, as well as to the community at large. Each member also has rights and responsibilities — in relation to other persons, the institution and the community. Mutual consideration is vital if the freedoms are to be preserved.

3. Members of the University shall have regard in particular for the rights of other members to: freedom from discrimination on such grounds as sex, creed or racial or ethnic origin; freedom from violence and intimidation; access to University premises; respect for property, whether personal or owned by the University for the benefit of the community; confidentiality of personal information.

Administration of the Code

1. Any person who wishes to make a formal complaint must deliver the signed complaint in writing to the code administrator.

2. The individual complained against must be named, and the cause of the complaint must be stated with precision, detailing date, time and place.

3. The complaint must be delivered within a reasonable time of the alleged act, incident or other cause, and in no case more than two months after it. However, when the complaint involves an allegation of deception

or dishonesty, this delay will begin to run from the date of discovery of the alleged deception or dishonesty.

4. On each campus there will be a code administrator, appointed by the Rector acting on the recommendation of an advisory committee composed equally of students, faculty and staff. The same person may fill the position on both campuses. The appointment will be for two years, and be renewable.

5. The code administrator will ensure that all complaint procedures are properly carried out.

6. The code administrator will issue yearly a public report indicating the nature and extent of the complaints received and handled, while protecting the anonymity and confidence of any individuals.

7. The code administrator will direct complaints against a member of the faculty or the staff to the appropriate authority under the General Complaint Procedures. (Part III.)

8. Complaints against a student will normally be handled under the Hearing Board System (Part II). However, the code administrator has the authority to decide that the nature of a complaint against a student is grave enough to warrant directing it to the appropriate authority under the General Complaint Procedures (Part III).

9. The code administrator also has the authority to investigate a complaint against a student and to attempt to settle that complaint before referring it to the Hearing Board System. In performing this function, the code administrator has the authority to impose a sanction within the range and regulations set for the Hearing Board System. (See Part II, paragraph 6 below).

10. The code administrator will inform both parties in writing of the findings of any investigation conducted under paragraph 9 above, including any sanction that is imposed.

11. If either party then refuses to accept either the findings or the sanction, the code administrator will forward the complaint to the Hearing Board System.

Part II

Hearing Board System

1. The two-stage system on each campus consists of campus boards and appeal boards.

2. Members of the boards will be drawn from a pool of 30 students — 15 from each campus. Members may sit on either campus, but the majority on any board will be drawn from the campus concerned.

3. The pool will be named annually after due public call for candidates, by a nominating committee composed of six members of the CUSA and one from the GSA.

4. A campus board, composed of three members, will hear any complaint forwarded to it by the code administrator, and find either for or against the student complained against. A campus board has the authority to impose sanctions as set out in Section 6 below. An appeal may be taken against the decision of a campus board, whether on the finding or the sanction.

5. An appeal board, composed of five other members, will hear any appeal against the decision of a campus board. It will either confirm, reverse or modify the finding of the campus board, and confirm, reverse or modify the sanction. It has the authority to require a re-hearing by another campus board. There is no further appeal from a decision of the appeal board.

6. Hearing boards may impose sanctions within the following limits; a fine not exceeding $100; a deposit, returnable at a specified date, not exceeding $200; payment of compensation for physical damage or loss not exceeding $500; exclusion from an area or function of the University for a stated period of time. If this exceeds twelve months, the sanction will be reviewed by a campus board at the end of each twelve-month period. (This sanction does not encompass the authority to suspend from any academic activity.)

7. The code administrator is responsible for the operation of the hearing boards, including convening each board as it is required and arranging for the appropriate recording of procedures, and ensuring that all complaints, notices, decisions and appeals are properly processed.

8. Each hearing board will sit as soon as possible, and generally, within fourteen days of the referral of a complaint or appeal to it by the administrator. The parties will receive at least seven days notice in writing of the sitting and copies of the complaint or appeal.

9. Each hearing board will deliver its decision in writing to both parties as soon as possible and, generally, within seven days of the conclusion of a hearing.

10. An appeal against a decision of a campus board must be lodged in writing, setting forth the grounds for the appeal, with the code administrator within fourteen days. The delay may be extended in exceptional circumstances by the code administrator.

11. The decision of a hearing board, if it is not unanimous, will be by majority vote.

12. Hearings will be closed and confidential unless a board, with the written consent of both parties, decides to admit members of the University community.

13. At a hearing by a campus board or an appeal board both parties have the right to be accompanied by an adviser, who may speak on their behalf.

14. At a hearing by a campus board both parties have the right to present witnesses.

15. In all other matters the hearing boards will determine their own procedures.

PART III

General Complaint Procedures

1. Where a complaint is to be handled under the General Complaint Procedures, the code administrator will forward it to the appropriate authority. Once a complaint has been so forwarded, the code administrator will not participate either in the enquiry into the complaint or in the imposition of sanctions.

2. A complaint against a member of faculty or a person employed in a Faculty will be forwarded to the appropriate Faculty Dean or Divisional Dean.

3. A complaint against a student will be forwarded to the appropriate Faculty Dean or Divisional Dean.

4. A complaint against the Rector will be forwarded to the Chairman of the Board of Governors.

5. In the event of a complaint against any other employee of the University, the appropriate authority is the senior administrator in the following list to whom the person complained against reports most directly:

Rector
Vice-Rector, Academic (Commerce and Administration, Engineering, Fine Arts)
Vice-Rector, Academic (Arts and Science)
Vice-Rector, Administration and Finance
Assistant Vice-Rector and Treasurer
Assistant Vice-Rector, Physical Resources
Assistant Vice-Rector, Relations and Audit
Assistant Vice-Rector and Director of Libraries
Vice-Rector and Principal of Loyola Campus
Assistant Vice-Rector and University Registrar
Assistant Vice-Rector, Admissions and Liaison
Director of Guidance
Director of Athletics
Dean of Students, Sir George Williams Campus
Dean of Students, Loyola Campus

6. Where a complaint against a student is dealt with under these general complaint procedures, the code administrator will inform the appropriate Dean of Students. If the complaint is against a graduate student, the code administrator will also inform the Dean of Graduate Studies.

7. If one of the persons named as an appropriate authority has lodged a complaint against a person within his or her sphere of authority, that complaint will be forwarded to the complainant's own superior.

8. The appropriate authority will acknowledge receipt of the complaint as expeditiously as possible and send copies of such acknowledgment to the person complained against and the code administrator, as well as to the Dean of Students and to the Dean of Graduate Studies when applicable.

9. The complaint shall be inquired into in whatever manner the appropriate authority considers suitable. The appropriate authority may conduct the inquiry personally or may assign it to another individual or to a committee. If the appropriate authority or the individual or the committee decides that the allegations are founded in whole or in part, the appropriate authority shall take whatever action is deemed suitable in so far as he or she is empowered to do so, or recommend such action to those who have the power to implement it. If the inquiry has been assigned to an individual or to a committee, the appropriate authority may also assign to that individual or committee the function of taking or recommending appropriate action. Since a student can be suspended or expelled from the University only by action of the Rector, any such recommendation must be forwarded to the Rector. (Should it be recommended that a faculty member be dismissed, the dismissal provisions of the Regulations relating to Termination of Employment and Suspension of Faculty Members and not the provisions of paragraphs 12 to 17 below shall apply.)

10. Both the complainant and the person complained against must be given the opportunity to make any relevant representations, in person or in writing as they see fit.

11. The decisions referred to in paragraph 9 must be written, signed and dated, and must be reasoned. The appropriate authority shall deliver such decisions to the complainant, the person complained against, the administrator to whom the appropriate authority reports and the code administrator as well as to the Dean of Students and the Dean of Graduate Studies when applicable. The Chairman of the Board of Governors shall deliver any decisions to the Board as a whole.

12. Both the complainant and the person complained against have a right of appeal to the Board of Governors. A written and signed notice of appeal must be delivered to the Secretary of the Board of Governors within fourteen days of the rendering of the decision appealed against. This delay may be extended in exceptional cases by the Board upon an application in writing, but it shall not be extended unless the appellant could not reasonably have acted within the fourteen days. The appeal may be taken against either the decision on the merit or against the action taken or recommended, or against both. The notice must state in clear and precise terms the grounds on which the appeal is based.

13. The Secretary of the Board of Governors shall send without delay copies of the notice of appeal to the appropriate authority responsible for the decision which is being appealed, to the opposite party and the code administrator as well as to the Dean of Students and the Dean of Graduate Studies when applicable. The appeal shall be placed on the agenda of the next meeting of the Board.

14. Should the appeal be lodged by the complainant, or should it be lodged by the person complained against in a case where action other than a sanction of suspension, expulsion or dismissal has been imposed or recommended, the Board of Governors shall decide whether to deal with it directly or to set up a review board, composed of persons from either within or without the University or from both, as the Board of Governors judges fit. The decision of the Board of Governors in the former case or of the review board in the latter case shall be final.

15. Should the person complained against wish to lodge an appeal in a case where a sanction of suspension, expulsion or dismissal has been imposed or recommended, he or she may elect that the appeal be dealt with according to the procedure set out in the above paragraph or may require the Board of Governors to appoint a committee of three persons from outside the University, one of whom must be a lawyer not otherwise in the employ of the University, to hear the appeal. The decision shall be final.

16. Where the choice referred to in paragraph 15 is not made, the Board of Governors shall decide whether to deal with the appeal according to the procedure set out in paragraph 14 or that set out in paragraph 15.

17. The Secretary of the Board of Governors shall communicate the decision in writing to the persons referred to in paragraph 11.

18. Wherever an official of the University is unable to exercise his or her functions, they will be carried out by that official's replacement.

19. Apart from the requirements to inform set out above, any proceedings or decisions shall be treated as confidential unless all the parties involved expressly agree that they be made public.

PART IV

Ombudsmen

The office of the Ombudsman deals with problems that cannot be settled through regular channels. The office functions independently of the usual administrative structures. This service is available to all students, staff, faculty members and administrative personnel of Concordia University.

1. There will be an ombuds office on each campus staffed by one full-time and one part-time ombudsman. The ombudsmen will be appointed by the Rector, acting on the recommendation of an advisory committee composed equally of students, faculty and staff. Appointment will be for two years.

2. Each part-time ombudsman, who must be a person already in the employ of the University, will be eligible for reappointment on the recommendation of an advisory committee. Each part-time ombudsman will be partially released from his or her other duties, or be appropriately compensated.

3. Anyone who studies, teaches or works at the University has the right to apply to the ombuds office. The members of the office will decide who will handle any particular application.

4. The ombudsmen are free to inquire into any matter brought to their attention, and to make whatever recommendations they judge appropriate. If all the ombudsmen agree, they are also free to inquire into a matter that has not been the subject of a specific application.

5. A part-time ombudsman will avoid personal involvement in any case where there may be a conflict of interest and will refer such a case to another ombudsman.

6. On the conclusion of an inquiry, an ombuds office will provide the individual who applied for its services with a written report on its disposition of the matter.

7. The ombudsmen have the right to refuse to take up any case where they judge their intervention would be inappropriate. They will provide the applicant with a written statement of the reasons.

PART V

Supervisory Board

1. The supervisory board will be concerned with all aspects of the University Code.

2. There will be seven members appointed by the Board of Governors; two representatives each of the students, faculty, and staff, with the Executive Assistant to the Rector serving as chairman. The student members will be nominated jointly by the student associations, and the faculty members by CUFA. The staff members will be nominated by the Rector's Cabinet on the basis of proposals received from the staff after due public notice.

3. Appointments will be for one year, and will be renewable.

4. The board will review the reports of both the code administrator and the ombudsmen, and make any recommendations it judges appropriate to the Rector, including recommendations for amendment to the code.

5. The supervisory board will be especially concerned with the equity of the sanctions applied to different individuals or categories of individuals.

6. A member of the University community may apply to the board to review the operation of any aspect of the code. In such instances, the function of the board will be to ensure that the procedures have been properly followed, including the way in which paragraph 8 of the section on Administration of the Code has been applied by the code administrator.

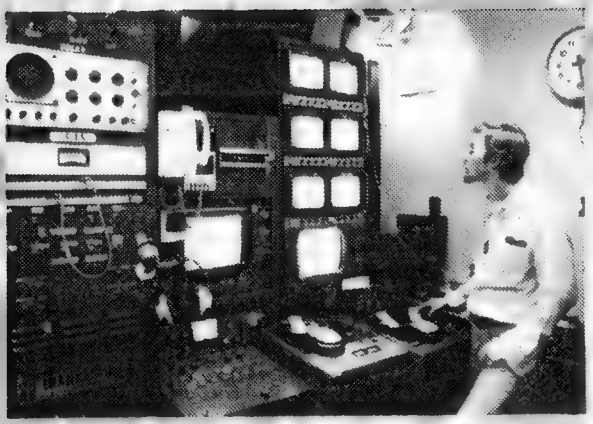
7. Three members of the board may require at any time that the board meet to review any aspect of the implementation of the code.

8. Recommendations of the ombudsmen may bear either on the actions or decisions of an individual or group or on the policies and practices which gave rise to such actions or decisions.

9. Any application to an ombuds office and any consequent inquiries or recommendations shall be treated as confidential unless all the parties involved expressly agree that the information be made public. Notwithstanding the above, the ombudsmen are entitled after an enquiry to publicize their recommendations if they all agree that the response to these was unsatisfactory.

10. The ombudsmen shall have immediate access to all University records, reports or other documents other than those which cannot be released for reasons of confidentiality. An ombudsman can appeal the decision of an officer of the University with regard to confidentiality to the Board of Governors. The ombudsmen will maintain the confidentiality of any confidential materials to which they have access.

11. The ombudsmen will issue yearly a public report indicating the nature and extent of their operations, while protecting the anonymity and confidence of any individuals.



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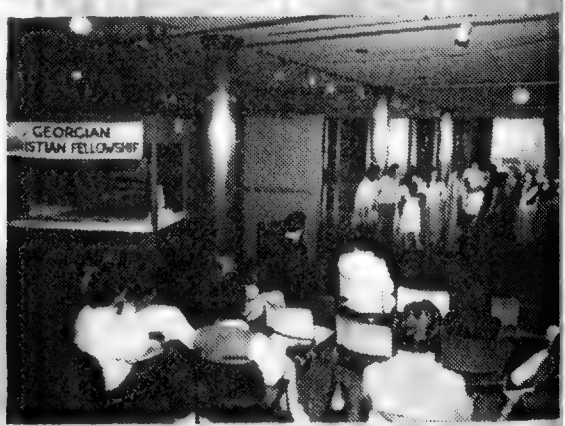
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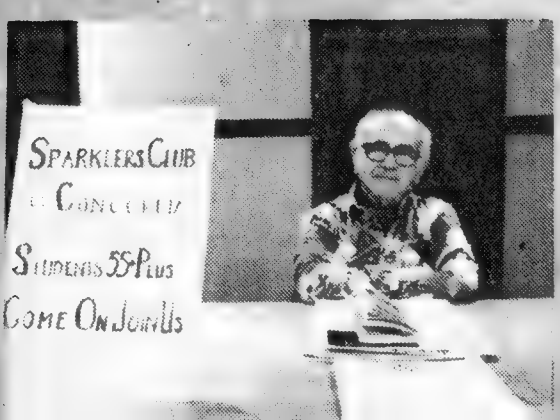
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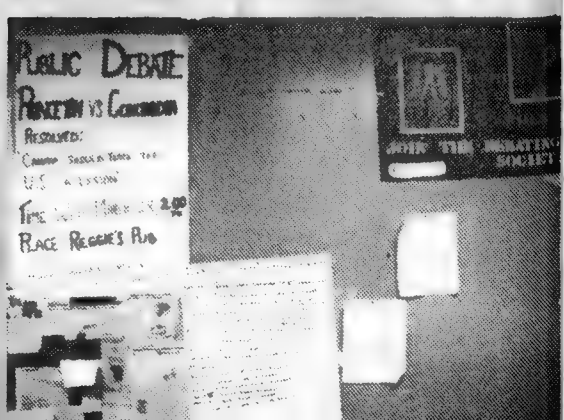
STUDENTS 55+ PLUS
COME ON JOIN US


PUBLIC DEBATE
PLACE REGGIE'S PUB

19 Student Associations

19 Student Associations

19.1 UNDERGRADUATE STUDENTS

Concordia University Students' Association

The Concordia University Students' Association (C.U.S.A.) represents all full- and part-time undergraduate students at Concordia. It is the result of a recent merger of four student associations: the Part-Time Students' Office of Sir George, the Concordia University Part-Time Students' Association (Loyola Campus) Inc., the Day Students Association of Sir George Williams, and the Loyola Students' Association of Concordia University, Inc. The association fee for all undergraduate students is set at $1.00 a credit.

C.U.S.A. was created to insure better student representation on the various committees that set and regulate the academic, social and cultural life of students at the University. C.U.S.A. thus appoints representatives to the Board of Governors, University Senate, the various Faculty Councils, the Concordia Council on Student Life and to those committees, councils and bodies established from time to time.

The C.U.S.A. constitution divides the powers and responsibility of the association among three bodies: the Legislative Council, the Executive and the Judicial Board.

The Legislative Council is made up of students that are elected by students from their respective faculties. As its name implies, the Council is responsible for all legislation emanating from C.U.S.A. The Co-Presidents, who are elected by the general student population, are also voting members of the Council; the other executives sit as non-voting members. The Legislative Council is currently made up of 13 Arts and Science representatives, nine Commerce representatives, four Fine Arts representatives and four Engineering representatives. Since this representation is calculated proportionally, it will change as enrollment in the faculties vary.

The Executive is headed by the Co-Presidents. They choose their cabinet whose nominations must be ratified by the Legislative Councillors. The Executives, normally known as Vice-Presidents, are responsible for the day-to-day operations of the Association and for the preparation of new documents leading to legislation.

The Judicial Board insures the constitutionality of all new legislation passed by the Legislative Council and serves as an arbitrary board in the case of intra-association conflicts.

C.U.S.A. has over 45 member associations and clubs. The associations and clubs may be of an academic (e.g. Psychology Students' Association) or of a cultural (e.g. Debating Society) nature. All carry on their own yearly programme of activities and are directly funded by C.U.S.A. The associations and clubs exist to help make one's stay at the University more interesting, to insure that students, whatever their interests, have the opportunity to get involved in C.U.S.A. and to assure student representation at the departmental level.

C.U.S.A. funds student radio stations, two newspapers and a television station (CUTV). In addition, each year sees the production of the Concordia Orientation Handbook, the C.U.S.A. Student Directory and the Carnival Handbook. All the media are student-owned and student-run. C.U.S.A. also owns its own typesetting shop, CUSASET.

C.U.S.A. offices are located on both campuses; on the Sir George Williams campus, in rooms H-603 and H-637, and on the Loyola campus at 6931 Sherbrooke West and 2499 West Broadway.

19.2 GRADUATE STUDENTS

Graduate Students' Association

The Graduate Students' Association (G.S.A.) is administered by graduate students who volunteer their time not only to make life more interesting and enjoyable for their peers, but also to help better student life in all areas within the University.

The officers of the G.S.A. include the President, the Vice-President and the Secretary-Treasurer. They sit as ex-officio members of the governing Council along with representatives from each faculty and division. Elections for these positions are held annually.

A membership fee is collected from all graduate students at the time of registration.

The Association publishes a newsletter several times a year to inform students of upcoming events. It is hoped that the meetings, parties and other activities will provide opportunities for students to meet and discuss matters of common concern.

The Association welcomes the interest and participation of all graduate students. The office is located at 2160 Bishop St. in room 105. The telephone number is 879-7219.

Two alumni associations exist at Concordia University to benefit and serve students after graduation. Upon graduation, students are requested to indicate which association they want to join, the Sir George Williams Association of Alumni or the Loyola of Montreal Alumni Association, in order to continue their affiliation with the University.

Each association sponsors and organizes a gamut of activities for its members. All graduates receive regularly Concordia University Magazine, which is published five times a year by the University Public Relations Office for alumni and friends of the University.

Sir George Williams Association of Alumni

The Association was begun informally by the "Guinea Pig Class" of 1937, the first of many thousands to receive degrees from what was first a College and then a University, both known as Sir George Williams (now part of Concordia University).

The Association was officially incorporated as a non-profit organization on September 21, 1957.

The aims and objectives contained in the charter are to preserve the followship of graduates of Sir George Williams; to preserve, extend and promote the interests of the University; and to assist in the furthering of student welfare.

The Association is guided by a Board of Directors, numbering 30, elected from graduates of the University. Until recently the Association financed its operations through alumni support but it recently concluded an agreement with the University whereby it joined the Development Office and is now financed through that department but retains its autonomy in all areas except campaigning.

There is a special classification called *"Active Members"* consisting of alumni who make a financial contribution in the current year. Their support entitles them to free library privileges, special social activities such as invitations to the annual Rector's Reception, invitations to concerts, art exhibitions, etc.

From time to time the Association holds reunions when it is deemed to be timely and appropriate.

The Association of Alumni has for many years provided a special award for a graduating student who, in the opinion of the faculty and students, has made a significant contribution to campus life.

The Association's office is located at 2150 Bishop Street and is under the supervision of Matthew Ram, BA'43. Further information may be obtained by writing the office or calling (514) 879-5898.

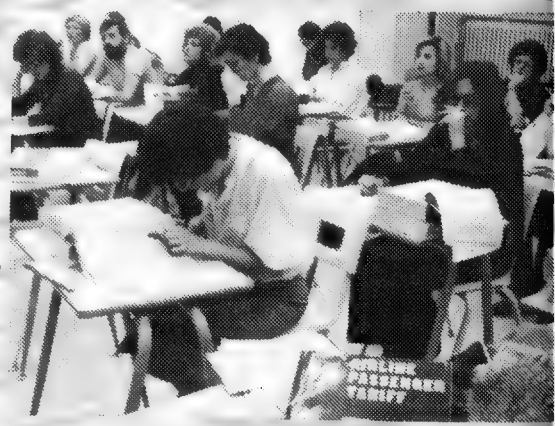
Loyola of Montreal Alumni Association

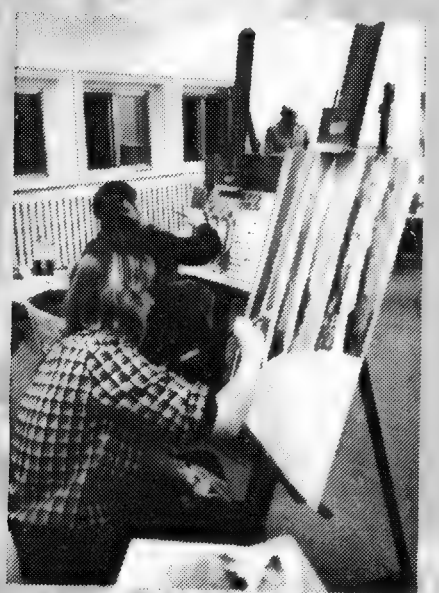
The objectives of the Association are to advance the interests and to promote the welfare of Concordia University, of the Association itself and its members. It provides a vehicle through which former students of the Loyola Campus of the University may maintain interest in and express support for their alma mater. It seeks to foster continuing contacts among former students and to conduct projects, organize events and to do other things necessary and useful for the University.

At a general meeting each year, directors and officers are elected from among the membership. The Association funds its activities from donations by members as well as from grants from the University's Development Office.

Each year, the Association sponsors a golf tournament, an oyster party, the Sports Hall of Fame and other social, cultural and sports activities. The Association honors its past presidents every year with a gala dinner. It arranges for an exchange programme between students and alumni in business and the professions. The Association also sponsors the selection and presentation of the Loyola Medal to outstanding Canadians.

The Alumni Office is located at 7141 Sherbrooke St. West in the Loyola Administration Building (AD-233). Information may be obtained from Gabrielle Murphy, the Association secretary, at 482-0320, local 421 or 313.





20 Centre for Continuing Education

20.1 Centre for Continuing Education

Director
Douglas Potvin
Tel: 879-8538

Assistant Director and Coordinator of Music and Arts
Doreen Bates
Tel: 879-8436

Director of Business and Administration Programmes
Kenneth Etheridge
Tel: 879-8436

Administrator of the Language Institute
Gwynn Cherrier
Tel: 879-8436

Office of the Centre
1822 de Maisonneuve Blvd. West

The commitment to the life-long pursuit of education is a privilege which falls, as it should, on the University. Concordia University is committed to exploring ways of accommodating its personnel and physical resources to meet the learning needs and interests of the vast number of adult learners who seek educational activities outside of the regular degree programmes of the University.

The Centre for Continuing Education at Concordia University initates and develops courses, programmes and workshops for individuals or groups who seek educational assistance from the University. These courses are non-credit courses.

20.1.1 NON-CREDIT PROGRAMMES

A wide variety of special programmes and courses is available through the Centre for Continuing Education for individuals who are not necessarily interested in following regular graduate or undergraduate programmes. For most of these, a certificate of achievement will be issued in the name of the Centre to students who successfully complete the required work. Course offerings are reviewed and supplemented frequently to ensure that they satisfy the changing needs for professional development in the community.

20.1.2 CERTIFICATE PROGRAMMES OF BUSINESS AND ADMINISTRATION

Hospitality Management Programme

This practical programme is available to individuals who wish to receive training in the special skills required to manage hotels, restaurants, and institutional and commissary food service establishments. Each course is made up of 13 two-hour weekly classroom sessions given in the evenings. Ten courses must be successfully completed to obtain the Certificate in Hospitality Management.

Management Practices Programme

This series of courses in management and administrative subjects is offered to individuals in the business community who wish to investigate or update their skills in selected fields. Each course is made up of 8 two-hour weekly classroom sessions which are given in the evenings. Six of the courses must be successfully completed to obtain the Certificate in Management Practices.

Tourism Programme

These courses are designed to train students for responsible jobs in tourism. They are intended either for those already employed in the industry or for those considering it as a career. Both courses in the programme must be successfully completed to obtain the Certificate.

Security Administration Programme

This programme is open to individuals who wish to receive training for responsible positions in security operations at industrial sites, financial institutions, retail shopping and recreational complexes, hotels, educational and other public institutions. Courses are offered in French or in English in the evenings. Four courses make up the Programme. Each course is made up of 13 two-hour weekly classroom sessions.

Journalism, Advertising and Public Relations Programme

This practical programme is designed to serve people who want to develop their ability to communicate. All of the courses are taught by experienced practitioners — journalists, graphics specialists, public relation executives and businessmen who have worked in the media or related occupations. Each course is made up of 12 weekly two-hour sessions. Eleven different courses are presently offered.

Portfolio, Investment and Tax Planning Management

This programme is intended to develop a knowledge of the investment field. It has been designed so that it will be useful to:

— professional investment personnel who wish to update or expand their knowledge of a particular aspect of investment strategy
— business and professional people who wish to develop their portfolio management skills
— individuals seeking a career in the investment finance business who need to acquire the necessary technical knowledge and investment skills
— individuals with personal portfolios or self-administered investment plans.

The programme is based on a flexible module system. Eighteen self-contained modules of 4 classroom hours each make up the total programme.

A participant may register for all modules or for one or more modules. Upon the successful completion of ten modules in the core section, the participant will be eligible for the Certificate in Portfolio and Investment Management.

20.1.3 ENGLISH LANGUAGE COURSES

The Centre for Continuing Education has designed an expanded programme of English instruction to meet the needs of adult students seeking language training for professional, social and academic purposes. The programme has been divided into six independent levels. In this way, a beginner may steadily progress to an advanced level of fluency in English, while a student with some knowledge of the language may enter the programme at any suitable point. The emphasis of these courses at the beginning and elementary levels (I and II) is on providing students with a functional command of spoken English. From level III onwards more reading and writing are introduced and, also starting at this level, students requiring English in order to study at an English-speaking college or university may follow courses designed specifically to meet their needs. All classes are limited to 18 students to ensure maximum student/instructor contact.

20.1.4 MUSIC AND ARTS

This area encompasses music, dance appreciation, visual arts (Photography, film, painting, etc.) and other interest courses.

As well as offering the beginner an opportunity for first-rate professional instruction in the techniques of the chosen medium, each programme also offers unusal specialized courses for the professional or serious amateur. Non-credit programmes are available in various areas.

Certain integrated arts courses are designed to stimulate experimental work with children and/or adults by non-traditional means; by exposure to selected materials of a chosen medium or media (sound pieces created from 'found objects').

The Practical Photography Programme offers modules of six and twelve weeks from beginning through advanced courses in the basics of camera operations and darkroom procedures through more sophisticated techniques of colour, special effects and portfolio preparation.

The Fashion Designing and Pattern Making Programme consists of six basic courses which train students in a professional manner for the fashion industry. A Programme Certificate is issued upon successful completion of the courses.

The Visual Arts programme offers interested students the opportunity to work with professional artists in the Montreal community in basic drawing, painting and life drawing.

Music programmes are offered in private, shared or group instruction on all instruments and voice.

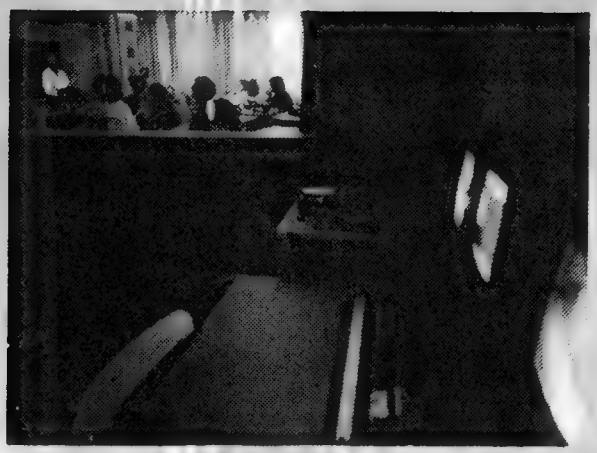
Interest courses are also available.

20.1.5 EDUCATIONAL TRAVEL PROGRAMME

The Centre for Continuing Education in cooperation with the academic departments of the University offers a number of travel programmes for credit or on a non-credit basis. These courses which are generally scheduled between April and September, are regular Concordia University offerings under the academic direction of a faculty member. Both physical and personnel resources of academic, business and social institutions in other countries are utilized to enhance the academic and cultural components of the courses.

20.1.6 SEMINARS AND WORKSHOPS

A number of seminars and workshops are scheduled by the Centre for Continuing Education. These seminars and workshops are sponsored with the cooperation of an academic department or faculty and are aimed at meeting the needs of the community in topics that are not normally a part of the regular degree programmes.



21 Off-Campus Courses and Programmes of Interest to Teachers

21.1 Off-campus credit courses

21.1.1 INTRODUCTION

Concordia University offers credit courses off-campus during the regular (fall/winter) and summer sessions. The courses are designed to be of interest to persons who find it inconvenient, for whatever reason, to attend classes on either campus. The University is prepared to offer courses wherever there is a sufficient demand, provided that qualified instructors are available. Off-campus courses have the same credit value as on-campus courses.

Last year, courses were given in Pointe Claire, Laval, Cowansville, St. Hubert and at various cultural centres (e.g. Saidye Bronfman Centre) throughout the Island of Montreal. Courses were offered from the Faculties of Arts and Science, Commerce & Administration and Fine Arts. In addition to courses applicable to degree programmes, courses were offered leading to the following undergraduate-level certificates:

Certificate in Mathematics for Teachers (Elementary Level)

Certificate in the Teaching of Science (Elementary school level)

Certificate in Creative Drama and Theatre Arts (Elementary and Secondary)

Certificate in Judaic Studies

Certificate in Library Studies

General Certificate in Arts and Science

Certificate in Family Life Education

Persons interested in obtaining further information about programmes, or in having courses offered at a particular location, should contact the office of the Co-ordinator of off-campus credit courses, Sir George Williams Campus, Concordia University, 1455 de Maisonneuve Blvd. W., Montreal, Que. H3G 1M8.

21.1.2 REGISTRATION FOR OFF-CAMPUS CREDIT COURSES

It should be noted that registration in a course does not constitute admission to the University. While registration as an Independent student is possible, those registering for courses are encouraged to apply for admission to the University. To obtain information about registration for off-campus courses, call 879-8402.

21.1.3 ADMISSION TO CONCORDIA UNIVERSITY

Admission requirements for off-campus credit courses are the same as for courses given on campus. Further information about admission to the University may be obtained by contacting one of the Admissions offices, at 482-0320, local 409 (Loyola Campus) or 879-4280 (Sir George Williams Campus).

21.2 Programmes of interest to teachers

Included in this section is a list of programmes which may be of particular interest to teachers. Concordia does not have a Faculty of Education. Courses and programmes for teachers are offered in various Faculties. Potential students are advised to consult the relevant departments of the University.

(a) Certificate Programmes

(1) Certificate in Art Education for Teachers (elementary school level) (30 credits) See § 81.5

(2) Certificate in Creative Drama and Theatre Arts, Elementary Option, Secondary Option (30 credits) See § 81.10

(3) Certificate in Education (for practising teachers) (30 credits) See § 31.12

(4) Certificat d'enseignement de l'anglais, langue seconde (30 credits) See § 31.31

(5) Certificate in Family Life Education (30 credits) See § 31.5

(6) Certificate in Judaic Studies (30 credits) See § 31.28

(7) Certificate in Library Studies (60 credits) See § 31.21

(8) Certificate in Mathematics for Teachers (Elementary option or Junior Secondary option) (30 credits) See § 31.22

(9) Certificate in the Teaching of English as a Second Language, Elementary Option, Secondary Option (30 credits) See § 31.31

(10) Certificate in the Teaching of Science (elementary School level) (30 credits) See § 31.29

Note 1. Certificate programmes are made up of undergraduate courses.

2. Most certificate programmes have very specific admission requirements. Students who wish to obtain a certificate are advised not to take the courses as Independent students unless they are sure that they are admissible to the programme.

(b) Bachelor's Degree Programmes

(1) Bachelor of Arts (Specialization in Early Childhood Education). (90 credits) See § 31.12

(2) Bachelor of Education (Teaching of English as a Second Language). (90 credits) See § 31.31

(3) Bachelor of Fine Arts (Specialization in Art Education). (90 credits) See § 81.5

(c) Diploma Programmes (see Graduate Calendar)

(1) Diploma in Art Education (36 credits)

(2) Diploma in Communication Studies (42 credits)

(3) Diploma in Early Childhood Education (minimum 33 credits)

(4) Diploma in English (32 credits)

(5) Diploma in Institutional Administration (33 credits)

(6) Diploma in Instructional Technology (33 credits)

(7) Diploma in Library Studies (36 credits)

(8) Diploma in Sports Administration (33 credits)

(9) Diploma in the Teaching of Mathematics (32 credits)

(10) Diploma in Theological, Religious and Ethical Studies (33 credits)

(d) Master's Degree Programmes (see Graduate Calendar)

(1) Master of Arts in Applied Linguistics (45 credits)

(2) Master of Arts in Art Education (45 credits)

(3) Master of Science in Biology (Teaching Option) (45 credits)

(4) Master of Science in Chemistry (Teaching Option) (45 credits)

(5) Master of Arts in Educational Studies (45 credits)

(6) Master of Arts in Educational Technology (90 credits)

(7) Master of Arts in English (45 credits)

(8) Master of Fine Arts (90 credits)

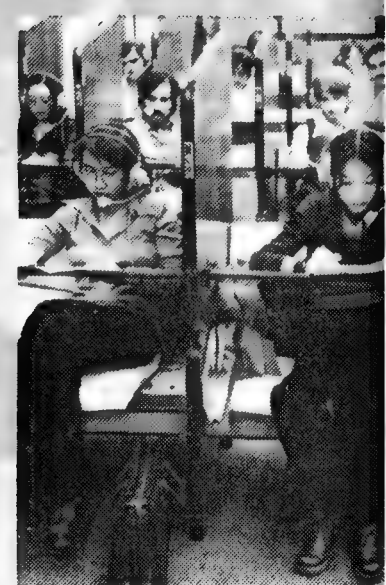
(9) Master of Fine Arts, Art History (60 credits)

(10) Master of Science in Physics (Option B) (45 credits)

(11) Master in the Teaching of Mathematics (M.T.M.) (45 credits)

(e) Doctoral Programme

Doctor of Philosophy, Art Education (90 credits)



31 Faculty of Arts and Science

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31.1 Faculty of Arts and Science

Divisional Deans
D. TADDEO *(Acting — Division I)*
J. S. CHAIKELSON *(Division II)*
M. COHEN *(Division III)*
R. E. WALL, *Provost (Division IV)*

T. J. ADLEY *(Assistant Dean for Curriculum)*
M. BALDWIN *(Assistant Dean for Student Affairs)*
R. C. COYTE *(Associate Dean, Division II)*
E. ENOS, *(Assistant Dean, Coordinator Arts and Science Relations)*
D. McKEEN *(Associate Dean, Division I)*
R. H. PALLEN *(Associate Dean, Division III)*
M. SINGER *(Assistant Provost, Division IV)*
V. ZEMAN *(Acting Assistant Dean, Division I)*
M. OSBORNE *(Assistant to the Dean)*

The Faculty of Arts and Science, comprised of the former Loyola Faculty of Arts and Science, the former Sir George Williams Faculty of Arts and the former Sir George Williams Faculty of Science, was brought into being on 1 July 1977.

For administrative purposes the Faculty is structured in three divisions comprising academic Departments and headed by Divisional Deans, and a fourth division headed by the Provost and containing the Centre for Interdisciplinary Studies and such collegial units as the interests of students, faculty members and the community served by Concordia lead the University to establish. The Departments and other units of which the Faculty is made up are placed within the Divisions as follows:

Division I:
Classics
Communication Studies
English
French
History
Journalism
Library Studies
Modern Languages and Linguistics
Philosophy
Teaching of English as a Second Language
Theological Studies

Division II:
Applied Social Science
Economics
Education
Geography
Political Science
Psychology
Religion
Sociology and Anthropology

Division III:
Biology
Bio-Physical Education
Chemistry
Geology
Health Education
Mathematics
Physics

Division IV:
Centre for Interdisciplinary Studies
Centre for Mature Students
Learning Development Centre
Liberal Arts College
Lonergan University College
School of Community and Public Affairs
Science College
Simone de Beauvoir Institute
Women's Studies

31.2 Programmes and Admission Requirements

General admission requirements are listed in § 13.

Specific requirements for admission to the various programmes leading to the degrees of Bachelor of Arts, Bachelor of Education and Bachelor of Science, and to certificates, are set out in the first column of the following listings. They refer to the table of CEGEP pre-Arts and pre-Science profiles defined below. Students lacking one or more of these prerequisites may be admitted but must include the designated prerequisites among the courses followed prior to entry into the second year of their undergraduate programme. In certain cases, the prerequisites must be taken in addition to the undergraduate programme.

Profile	Requirements
0.00	Diploma of Collegial Studies
.34	To be a Registered Nurse, with authorization to practise and at least one year's experience
.72	DEC or equivalent and appropriate teaching licence.
1.4	Mathematics 103, 203 Physics 101, 201, 301; or 102, 202, 302 Chemistry 101, 201 Biology 301 or 921
10.1	Mathematics 337; or 103, 307 Biology 301, 401; or 921 Psychology 102
10.2	Mathematics 103, 307

Profile	Requirements
10.3	Mathematics 337
10.4	Mathematics 101-77, 103, 105, 203
10.5	To have reached in the language that will be studied a level equivalent to that of 2 CEGEP courses. If these courses have not been available in the CEGEP attended, the University may make up for them.
10.9	Mathematics 103, 203 Physics 101, 201, 301-78 Chemistry 101, 201 Biology 301
A:	Interview
C:	Knowledge of English
D:	Knowledge of French
K:	Submit a portfolio of representative work
N:	Placement test
X:	No specific requirement, but students should be prepared for entry into the disciplines of main interest. (This code does not appear in 'Accueil '78' and is one invented by the University.)

Programme titles refer to honours, specializations, majors and minor components where these exist. Full information about the programmes offered under each title (including combinations with programmes in other disciplines) is to be found in the section of the calendar specified in the third column below. Certificate programmes, indexed in the same way, are listed in the last section, after those devoted to the programmes that lead to degrees in Arts, Education and Science.

Bachelor of Arts, Bachelor of Science, Bachelor of Education

Profile	Programme	Calendar Section
	Andragogy (see Education — Adult Education)	
0.00	Anthropology	31.30
	Applied Mathematics (see Mathematics)	
0.00	Applied Social Science	31.5
0.00	Asian Studies	31.19
0.00	Athletic Training	31.7
10.9	Biochemistry	31.8
10.9	Biochemistry (with Medicinal Chemistry Component)	31.8
10.9	Biological Sciences	31.6
	Biology (Certificate in Scientific Measurement Biology option, see Physics)	
10.9	Bio-Physical Education	31.7
10.9	Bio-Physical Education (with Biochemistry Component)	31.7
	Botany (see Biological Sciences)	
0.00	Canadian Studies	31.19
10.9	Chemistry	31.8
10.9	Chemistry (Analytical)	31.8
	Chemistry (Certificate in Scientific Measurement Chemistry option, see Physics)	
0.00	Child Studies	31.12
	Classical Philology (see Classics)	
0.00	Classics	31.9
0.00K	Communication Studies	31.10
.34	Community Nursing	31.17
0.00	Community Service	31.17
0.00K	Creative Writing (see English, Creative Writing)	31.13
0.00	Economics	31.11
0.00	Education	31.12
0.00	Education — Adult Education	31.12
	Education (see Teaching, see Child Studies)	
0.00	Education and Philosophy	31.12, 31.24
	Philosophy of Education (see alphabetical listing)	
0.00	English	31.13
0.00K	English — Creative Writing	31.13
0.00	English Dramatic Literature	31.13
0.00	English and French	31.13, 31.14
0.00	English and History	31.13, 31.18
0.00	English Language	31.13
0.00	English Literature	31.13
10.5	English and Modern Languages	31.13, 31.23
0.00	English and Philosophy	31.13, 31.24

Profile	Programme	Calendar Section
0.00	English and Religion	31.13, 31.28
0.00	Family Life Education	31.5
0.00	French	31.14
0.00	French and English	31.13, 31.14
0.00	French/English Translation	31.14
0.00	French and History	31.14, 31.18
0.00	French Language	31.14
0.00	French Literature (Québec)	31.14
0.00	French Literature	31.14
10.5	French and Modern Languages	31.14, 31.23
10.2, 10.3	Geography (BSc)	31.15
0.00	Geography (BA)	31.15
0.00	Geography (Human; includes Historical, Urban, Cultural, Economic)	31.15
0.00	Geography (Man Environment relationships)	31.15
10.2, 10.3	Geography — Physical	31.15
10.9	Geology	31.16.1, 31.16.2
10.9	Geology (with Minor in Ecology)	31.16.1
10.5	German	31.23
	Greek (Ancient — see Classics)	
0.00	Health Education	31.17
10.5	Hebrew	31.23
0.00	History and English	31.18, 31.13
0.00	History and French	31.18, 31.14
0.00	History and Philosophy	31.18, 31.24
	History and Religion (see Religion and History)	
Appropriate	Interdisciplinary Studies — Self-Elected Specialization	31.19
10.5	Italian	31.23
0.00 A,D,N	Journalism	31.20
0.00	Judaic Studies	31.28
	Latin (see Classics)	
0.00	Library Studies	31.21
0.00	Linguistics	31.23
10.4	Mathematics (BA)	31.22
10.10	Mathematics (BSc)	31.22
10.4	Mathematics (Applied — BA)	31.22
10.10	Mathematics (Applied — BSc)	31.22
0.00	Mathematics (Minor for Arts Students)	31.22
10.5	Modern Languages and English	31.23, 31.13
10.5	Modern Languages and French	31.23, 31.14
0.00	Outdoor Education	31.7
0.00	Philosophy	31.24
	Philosophy and Education (see Education)	
0.00	Philosophy and English	31.24, 31.13
0.00	Philosophy and History	31.24, 31.18
0.00	Philosophy and Religion	31.24, 31.28
0.00	Philosophy and Sociology	31.24, 31.30
0.00	Philosophy of Education	31.12
10.10	Physics	31.25
	Physics (Theoretical and Experimental options — see Physics)	
10.10	Physics (Certificate in Scientific Measurement — Biology, Chemistry and Physics options)	31.25
10.10	Physics/Marketing	31.25
0.00	Political Science	31.26
10.9	Psychobiology	31.27
10.1	Psychology (BA)	31.27.1, 31.27.2
10.9	Psychology (BSc)	31.27.1, 31.27.2
10.9	Psychology (Mathematics option)	31.27.2
0.00	Recreation and Leisure Studies and Psychology	31.19
0.00	Recreation and Leisure Studies and Sociology	31.19
0.00	Religion	31.28
	Religion — Judaic Studies (see Judaic Studies)	

Profile	Programme	Calendar Section
0.00	Religion and History	31.28, 31.18
0.00	Religion and English	31.28, 31.13
0.00	Religion and Philosophy	31.28, 31.24
0.00	Religion and Sociology	31.28, 31.30
10.5	Russian	31.23
0.00	Russian Studies	31.19
0.00	Science and Human Affairs	31.19
10.10	Scientific Measurement (Biology option, Chemistry option, Physics option)	31.25
Appropriate	Self-Elected Programme	31.19
0.00	Social Welfare	31.5
0.00	Sociology	31.30.1, 31.30.2
0.00	Sociology and Philosophy	31.30.2, 31.24
0.00	Sociology and Religion	31.30.2, 31.28
10.5	Spanish	31.23
10.4	Statistics (BA)	31.22
10.10	Statistics (BSc)	31.22
0.00	Teaching of English as a Second Language — (Elementary, Secondary and Adult options)	31.31
0.00	Theological Studies	31.32
0.00	Undergraduate Scholars Programme	31.19
0.00	Urban Studies	31.19
0.00	Women's Studies	31.34
	Zoology (see Biological Sciences)	

NOTE: The Calendar Sections listed in the third column contain details, where applicable, of professional qualifications required for admission.

31.3 Degree Requirements (Interim)

The Council of the Faculty of Arts and Science has not yet fully determined the degree requirements for the new Faculty. The following shall serve as the degree requirements for students admitted to a Faculty programme for the Summer Session of 1979 or the Fall-Winter Session 1979-80.

Up to and including the academic year 1973-74, degree programmes were expressed in terms of courses, with one credit being applied to a "full course" (normally one extending over two terms) and one half-credit being applied to a "half-course" (which was normally completed in one term).

In 1974-75, in accordance with the recommendations of the Council of Universities of Quebec, the credit base was modified to take into account the total activity of the student. A student preparing for the degree of Bachelor of Arts, Bachelor of Education or Bachelor of Science takes a minimum of 90 credits. Each credit represents, for the average student, a minimum of 45 hours spread across lectures, conferences, tutorials, laboratories, studio or practice periods, tests, examinations and personal work.

Since the CEGEP programmes are designed to give all students the opportunity to explore different fields and thus acquire a broad general basis for further study, the undergraduate programmes in the Faculty of Arts and Science require of students some degree of concentration in specific areas. Detailed statements about these programmes are made under the appropriate disciplinary headings in the sections of the calendar that follow this general account of degree requirements. They represent four main forms of concentration, the *minor*, the *major*, the *specialization* and *honours*, and a fifth form, the *certificate*. The University's formal definitions of these kinds of programmes are set out in section 16.2; for the convenience of students in Arts and Science those definitions as they are construed in the Faculty are briefly repeated below.

The *minor* is a programme consisting of a *minimum* of 24 credits in a single discipline and professing to give a basic introduction to the methodology and key concepts of that discipline. A minor cannot in and by itself provide the concentration required of a candidate for a degree and is therefore always taken in combination with another programme.

The *major* consists of a *minimum* of 36 credits taken in an approved sequence of courses usually in a single discipline or field. In some cases the sequence may include certain approved courses in other, closely related fields. The major provides a solid grounding in the academic knowledge comprehended within the field of specialization.

A *specialization* consists of a *minimum* of 60 credits taken in an approved sequence of courses in a single discipline or field. Like an honours programme, it provides a comprehensive education in that field, but to enter and remain in it a student does not have to meet a special performance requirement (see however programmes in Inter Disciplinary Studies: self-elected Specialization § 31.19 and Library Studies § 31.21). Students interested in subsequent "classification" by the provincial government may be advised to follow a specialization or an honours programme.

An *honours* programme consists of a *minimum* of 60 credits taken in an approved sequence of courses in one of certain select-

ed disciplines or fields, with superior performance required for admission to and continuation in the programme, the precise level of such performance being determined by Senate; see section 16.2.4 and *Faculty Honours Regulations* set out below for matters governing honours programmes at Concordia. An honours degree, because it testifies to a student's comprehensive education in a particular field, intellectual commitment to that field and achievement of a high level of academic performance, has traditionally been required of entrants to postgraduate programmes.

Besides these four basic forms of concentration, there are in several disciplines and fields *certificate* programmes. These consist of a *minimum* of 30 credits, may be used as components of major, specialization and honours programmes, and in some cases are identical with *minors.*

Graduation requires.

(1) Successful completion of a programme of concentration in the form of an *honours, specialization,* or *major* programme.

2. (a) In order to qualify for a Bachelor of Science degree, a student must obtain a minimum of 48 Science credits out of the 90 required for the degree, not counting the additional credits required in extended credit programmes.

(b) In order to qualify for a Bachelor of Arts degree a student must obtain a minimum of 48 Arts credits out of the 90 required for the degree, not counting the additional credits required in extended credit programmes.

(c) In order to qualify for a Bachelor of Education degree a student must comply with the degree requirements as set out in § 31.31.

Classification of Credits

i) *Science Credits.* Unless otherwise indicated, courses offered by the departments of Biology, Chemistry, Physics, Geology and Biophysical Education are counted as Science credits. In general, courses offered by the Department of Computer Science may also be used as Science credits.

ii) *Arts Credits.* Unless otherwise indicated, courses offered by Classics, Communication Studies, English, French, History, Journalism, Library Studies, Modern Languages and Linguistics, Philosophy, Theological Studies, Andragogy, Applied Social Science, Education, Political Science, Religion, Sociology and Anthropology are counted as Arts credits. Courses offered by the Centre for the Teaching of English as a Second Language may also be regarded as Arts credits.

iii) *Arts and Science Credits.* The departments of Psychology, Economics, Geography, Mathematics and Health Sciences offer courses which may be acceptable either as Arts or as Science credits. Students are advised to consult the departmental calendar entry for these departments to determine which courses are acceptable as Science credits and which are acceptable as Arts credits.

3. In general, the credits obtained for any course may not be used to satisfy the requirements of more than one programme. Students first registered in certain Certificate programmes may however apply credits obtained toward the Certificate to a degree programme.

4. Those students entering the University after September 1, 1978 as *Independent Students* will be permitted to apply *no more* than thirty credits obtained as an Independent Student towards any Arts and Science Faculty degree programme.

Supplemental Examinations (Arts and Science)

Supplemental examinations shall be offered only where, as a condition for passing the course, it is required that a student pass the final examination regardless of its weighting; or where the final examination contributes 50% or more of the final grade.

A student failing a course which comprises entirely, or in part, a laboratory or similar practicum, may not be eligible to write a supplemental examination.

All courses which a student fails and for which there is no supplemental examination shall be graded FNS; 40% NS or 20% R.

A failed student (see Section 16.3.5) may not write supplemental examinations.

Honours Programmes

The Faculty of Arts and Science has programmes leading to an Honours degree in certain selected fields. To enter an Honours programme, students apply to the Department Honours Committee (Adviser). The Department Honours Committee (Advisor) will accept students into Honours, subject to review by the Faculty Honours Committee. The Department Honours Committee (Adviser) will not normally accept students until they have obtained 30 credits at this University; students requiring less than 30 credits to graduate will not normally be accepted. The Department will advise the Faculty Honours Committee of the acceptance. The Faculty Honours Committee will review the departmental acceptance and notify the Department, the student and the Records Office of the acceptance. In those cases where the Faculty Committee reverses a Department's acceptance of a student into Honours, the Department may appeal the Faculty Committee's ruling to the Arts and Science Faculty Council.

Honours Regulations (Faculty Regulations) See also Section 16:2:4

In order to qualify for an Honours degree, a student must comply with the regulations set forth below:

1. An Honours student must meet the general degree requirements as well as the specific requirements for an Honours degree. A student must complete a minimum of 30 credits in the courses from the Honours component of the programme at this University to receive a degree with Honours. In certain cases, these 30 credits may include some specific courses for which pro-tanto credit may not be awarded.

2. An Honours student must maintain an average of 'B' or 75% in all courses in the Honours component of the programme; the minimum acceptable grade in any one of these courses is 'C' or 65%.

3. An Honours student must have a minimum average of 'B-' or 71% over courses in the Honours component of the programme taken in each academic year. For part-time students this will be calculated in eighteen-credit blocks.

4. In the courses outside the Honours component of the degree programme, an Honours student must have an average of no less than 'C' or 65%; the minimum acceptable grade in these courses is 'D' or 55%.

5. Students who are required to withdraw from the Honours programme may proceed in the corresponding Specialization or Major programme. reinstatement in the Honours programme is possible only by appeal to the Faculty Honours Committee.

6. A student is allowed to qualify for only one Honours degree in either a single or combined Honours programme. A student may qualify for a Minor or Major programme in addition to an Honours programme. In general, the credits obtained for a particular course may be used to satisfy the requirements of only one programme.

Students may appeal their Department's determination of their status or interpretation of requirements in the Honours programme. Such appeals should be addressed to the Chairman of the Faculty Honours Committee.

The Faculty Honours Committee receives and reviews Department recommendations for acceptance into Honours programmes and graduation with Honours, and adjudicates disputes between students and Departments concerning Honours programmes. Since the Faculty Honours Committee cannot hear appeals contesting its own judgements, students and Departments who wish to appeal a decision of the Faculty Honours Committee should address this appeal to the Chairman of the Arts and Science Faculty Council.

These new regulations will apply to those students entering Honours programmes as of June 1, 1979. Students already in an Honours programme may continue under the old regulations established prior to June 1, 1979.

General Certificate in Arts and Science

The General Certificate in Arts and Science is intended primarily for part-time students who qualify for admission to first cycle programmes, but who, at the time of registration, have not yet determined which programme would best serve their interests. In particular, it is designed to meet the needs of mature students who are unwilling or unable to make the long-term commitment involved in a regular or extended degree programme.

The Certificate requires successful completion of 30 credits. At least 24 of these credits must be chosen from courses offered by not more than three departments in the Faculty of Arts and Science.

Credits earned in the Certificate may not be counted towards the additional credits required in extended programmes.

Former independent students may transfer to the Certificate Programme in Arts and Science up to twelve credits already earned provided they are students in good standing.

The General Certificate Programme in Arts and Science was first offered in the session commencing September 1978.

31.4 Andragogy

PROGRAMMES

Programmes and courses formerly offered under the auspices of Andragogy will now come under the jurisdiction of the Department of Education. (See Section 31.12 — Education). All courses previously entitled "Andragogy" (ANDR) will in the future be entitled "Adult Education" (ADED). The title of the "BA Major in Andragogy" programme has been amended to "BA Major in Adult Education". The title of the "Certificate in Andragogy" has been changed to "Certificate in Adult Education".

31.5 Applied Social Science

Chairperson
S. I. CARTER, *Associate Professor*

Professor
H. G. DIMOCK
R. D. McDONALD

Associate Professor
R. CAWLEY

Assistant Professor
R. KASS
T. RAYNOR
J. A. SPROULE
M. TAYLOR

Associate Professor of Applied Social Science and Psychology
D. M. HACCOUN

Assistant Professor of Sociology and Applied Social Science
K. CHAN

Special Lecturers
S. JOINER
A. R. SEAMAN

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Specialization in Applied Social Science (Sir George Williams)

Prerequisite: PSYC C200[6], SOCI C200[6]
Year I
9 APSS C212[6], C351[3]
Year I or II
3 SOCI C411[3]
6 SOCI C401[6]
3* PSYC C310[3]
6 Chosen from PSYC C315[3] and PSYC C316[3] PSYC C317[6], SOCI C210[6]
Years II and III
15** Chosen from APSS C413[6], C421[3], C431[6], C441[3], C451[3], C452[3], C471[6]
6 Chosen from SOCI C310[6], C312[6], C311[6], C415[3], C400[6]
6 Chosen from PSYC C342[6], C381[3], C384[3], C330[6], C333[6], C336[6], C339[6]
6 APSS C400[6]

* *NOTE: PSYC C310 has as its prerequisite PSYC C315 or equivalent previously or concurrently.*

** *NOTE: With permission of the Department, up to six credits may be substituted from other APSS courses.*

42 BA Major in Applied Social Science (Sir George Williams)

Prerequisite: PSYC C200[6], SOCI C200[6]
6 APSS C212[6]
18* Chosen from APSS C351[3], C413[6], C421[3], C431[6], C441[3], C451[3], C452[3]
6 PSYC C310[3], C315[3]
6 SOCI C401[6]
6 Chosen from PSYC C220[3], C221[3], C222[3], C223[3], C391[3]

* *NOTE: With permission of the Department, up to six credits may be substituted from other APSS courses.*

60 BA Major in Social Welfare (Sir George Williams)

6 Credits in Economics
6 POLI C370[6]
6 Elective credits in Psychology
18 Elective credits in Sociology
12 ECON or POLI or PSYC Elective credits
6 APSS C461[6]
6 PSYC C317[6] or SOCI C210[6]

NOTE: Only 18 of the 60 credits may be at the '200' level.

Certificate in Community Service

The Department of Applied Social Science offers a 30-credit programme, consisting of 18 credits of applied courses and 12 credits of foundation courses chosen as electives, leading to the Concordia University Certificate in Community Service.

Admission Requirements

General Admission Requirements are listed in Section 13.

Students should be actively involved in Community Service, either as staff or as volunteers or members of boards, committees or councils of community organizations and agencies.

30 Certificate in Community Service

(Courses must be taken in an approved sequence.)

Year I
3 APSS C351[3]
Years I or II
6 SOCI C353[3], C354[3]
6 Chosen from POLI C336[6], C360[6], SOCI C230[3], C382[3], C450[6]
15 APSS C431[6], C441[3], C442[6]

NOTE: *Where required students must take introductory courses when these are prerequisites for courses in the Certificate.*

NOTE: *In the event that a student is awarded an exemption from a required course it will be necessary for the student to replace that course with another relevant to the programme, chosen in consultation with the Coordinator of the Certificate Programme.*

Certificate in Family Life Education

The Department of Applied Social Science offers a 30-credit programme, consisting of 18 credits of applied courses and 12 credits of foundation courses chosen as electives, leading to the Concordia University Certificate in Family Life Education.

Admission Requirements

General Admission Requirements are listed in Section 13.

Students should be actively involved in Family Life Education through a sponsoring community agency or organization; or interested in becoming more effective Family Life Educators.

NOTE: Where required, students must take introductory courses when these are prerequisites for courses in the Certificate.

30 Certificate in Family Life Education
(Courses must be taken in an approved sequence.)

Year I
6 APSS C351[3], C454[3]
Years I or II
12 *Chosen from EDUC C392[3], PSYC C220[3], C221[3], C390[6], C391[3], SOCI C272[6], C370[6], C372[6]*
Year II
12 *APSS C431[6], C453[3], C455[3]*

NOTE: *In the event that a student is awarded an exemption from a required course it will be necessary for the student to replace that course with another relevant to the programme, chosen in consultation with the Coordinator of the Certificate programme.*

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

APPLIED SOCIAL SCIENCE C212
Introduction to Applied Social Science

This course is an orientation to the field of applied social science with a specific focus on relating to and working with other people. It includes a consideration of personal identity, interpersonal relations and concepts of helping relationship. (6 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C321
Introduction to Social Gerontology

The course will deal with the problem of growing old in contemporary society; and with the biological, psychological and sociological dimensions of the human aging processes. The course is also designed to identify the needs of the elderly in our community and to examine approaches to dealing with these needs. (3 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C351
Understanding Group Behaviour

This is a laboratory course which includes participating in a group and analyzing such common group dynamics as leadership, communication, decision-making, member roles and sensitivity to others. (3 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C400
Introduction to Social Intervention

Prerequisite: Permission of the Department. Introduction to the principles and practice of social intervention. Approaches to social problem identification and analysis. The role of the social change agent. Elements of working with individuals, groups and communities. Laboratory periods will permit the application of course content to practice. (6 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C413
Adolescent Behaviour in Urban Areas

Prerequisite: Applied Social Science C212. A survey of adolescent values, family and group relations, social mobility, friendship patterns, educational and vocational adjustment with a focus on understanding social behaviour in urban communities. Attention will also be given to programmes attempting to enhance adolescent development and reduce social problems. (6 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C421
Leadership and Decision Making in Community Serving Organizations

Prerequisite: Second or third year standing and permission of the Department. This course focuses on the leader in community serving organizations who solves problems and makes decisions in conjunction with other people. The basic objective of this course is to increase knowledge and understanding of human behaviour in the not-for-profit organizations. The course will focus on: i) theory and research, ii) understanding of the processes of leadership and decision making, iii) behavioural skills in working with people, iv) understanding of oneself in relation to administrative responsibility. This course will rely heavily on active participation of class members. (3 credits) *Note: See § 200*

APPLIED SOCIAL SCIENCE C431
Group Development and Supervision

Prerequisite: Applied Social Science C212. Orientation to systematic group development in community-serving organizations. Development of understanding and skill in using group procedures to facilitate communication and decision-making in small groups, classes and committees. Focus on helping others improve their functioning with groups through supervision and training. Each student will study the development of an agency group throughout the year. (6 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C441
Community Development

Prerequisite: Applied Social Science C212 or enrolment in a concentration in a social science. Orientation to systematic community problem solving dealing with communications, assessment of needs, decision-making, and intergroup relations, drawing on the contribution of the social sciences. (3 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C442
Advanced Integrative Seminar in Community Organization and Animation

Prerequisite: This course is for Certificate students only. The purpose of this course is to coordinate the other courses required by the programme and to integrate the theory derived from the contributing disciplines within an applied social science perspective. (6 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C451
Principles and Practices of Guidance

Prerequisite: Applied Social Science C212. Principles and methods of counselling and guidance with particular reference to their application in the setting of the community-serving organizations. Organization and administration of a guidance service including measurement and appraisal, techniques of counselling, occupational and educational information, and referral, will be considered. (3 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C452
Introduction to Counselling

Prerequisites: Applied Social Science C212, C451. A survey of typical problems, information, techniques, principles, policies and points of view useful to professional staff in community-serving organizations; focus on educational, vocational and relationship problems, and the use of counselling techniques in staff relations and supervision. (3 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C453
Sexuality and Human Relations

Prerequisite: Third-year standing and permission of the Department. Using a variety of small group processes, the seminar will explore physical and psychosocial factors in the emergence of the sexual self. Objectives of the seminar include helping students to increase awareness of sexual values and attitudes. (3 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C454
Special Seminar in Family Communication

Prerequisite: This course is for Certificate students only. A course in marriage and family living, including decision-making, interpersonal relationships, communication, male-female lifestyle and problem-solving within a family. Handling of crisis, loneliness, death and dying will also be considered. The course studies marriage and family relationships in a way that can pertain directly to the student's own living experiences. (3 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C455
Advanced Integrative Seminar in Family Life Education

Prerequisite: This course is for Certificate students only. The purpose of this course is to coordinate the other courses required by the programme and to integrate the theory derived from the contributing disciplines within an applied social science perspective. (3 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C461
Social Welfare and the Social Welfare Services

Prerequisite: Second-year standing or permission of the Department. A general course concerned with social welfare problems in modern society: some analysis of these problems in relation to economic and cultural patterns. A description of the functional settings in which social welfare services are practised. A consideration of the methods used in social welfare, and some consideration of the connective links between social welfare services and religion, law, medicine, nursing, teaching and other professions. (6 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C471
Special Projects Seminar

Prerequisite: Second year Major in Applied Social Science and permission of the Department. A seminar course for field projects, surveys and research studies undertaken by each student. (6 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C472
Special Projects Seminar

Prerequisite: Second year Major in Applied Social Science and permission of the Department. A student repeating Applied Social Science C471 registers for credits under Applied Social Science C472. (6 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C481
Special Seminar in Applied Social Science

Prerequisites: Psychology C200, Sociology C210 and permission of the Department. The subject for the seminar will vary from year to year reflecting recent developments in social change, new approaches in the behavioural sciences or the special interests of the instructor. (6 credits) *NOTE C/See § 200.1*

APPLIED SOCIAL SCIENCE C482
Special Seminar in Applied Social Science

Prerequisite: Permission of the Department. A student repeating Applied Social Science C481 registers for credits under C482. (6 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C485
Special Seminar in Applied Social Science

Prerequisite: Permission of the Department. The subject for the seminar will vary from year to year reflecting recent developments in social change, new approaches in the behavioural sciences, or the special interests of students or the instructor. (3 credits) *NOTE C/See § 200.1*

APPLIED SOCIAL SCIENCE C486
Special Seminar in Applied Social Science

Prerequisite: Permission of the Department. A student repeating Applied Social Science C485 registers for credits under Applied Social Science C486. (3 credits) *NOTE A/See § 200.1*

APPLIED SOCIAL SCIENCE C487
Independent Study in Applied Social Science

Prerequisite: Permission of the Department. This course is intended for students who wish to continue a project initiated in another course in the Department. The instructor of that course must agree to supervise this independent study. (3 credits)

31.6 Biological Sciences

Chairman
R. M. ROY, *Associate Professor*

Professors
H. E. ENESCO
R. K. IBRAHIM
E. B. NEWMAN
D. L. PEETS

Associate Professor
P. ALBERT
P. D. ANDERSON
S. S. ASHTAKALA
C. BECKMAN
R. T. CRONIN, S. J.
K. S. DHINDSA
N. N. KAPOOR
G. LEDUC
R. L. LOWTHER
C. F. MACLEOD
E. J. MALY
B. S. MANGAT
J. D. MCLAUGHLIN
S. M. RUBY
P. WIDDEN

Assistant Professors
M. HERRINGTON
J. A. KORNBLATT
M. MCELHONE

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Courses offered by the Biology Department are classified as follows:

A ZOOLOGY COURSES
C230, C232, C233, C237, C238, C330, C331, C332, C333, C335, C336, C337, C338, C339, C431, C432, C433, C434, C439.

B. BOTANY COURSES
C240, C242, C246, C341, C342, C343, C345, C347, C348, C441, C442, C449.

C. ECOLOGY COURSES
C250, C351, C352, C353, C355, C356, C450, C454, C459.

D. CELL AND MOLECULAR BIOLOGY COURSES
C220, C260, C270, C360, C361, C362, C363, C364, C365, C370, C460, C461, C462, C463, C464, C465, C467, C469, C470.

E. BIOLOGY ELECTIVE COURSES
C222, C223, C320, C321, C380, C420, C421, C490, and any of the Zoology, Botany, Ecology or Cell and Molecular Biology courses. Approved courses outside the Department may be taken for Biology elective credits.

For those wishing to concentrate in a particular area, recommended sequences of courses are described in course guides available in the Biology Department.

72 BSc Honours in Biology

An approved sequence of courses from the following selection constitutes an Honours in Biology. *Students must consult with the* Departmental Honours Adviser *before registering for the Honours programme.*

24 CHEM C221^{3*} and C222^{3*}, C371^{6}, BIOL C222^{3}, C260^{3}, C490^{6}
6 BIOL C333^{6} or C348^{6} or C364^{3} and C464^{3}
36 Selected from *A. Zoology courses, B. Botany courses, C. Ecology courses and D. Cell and Molecular Biology courses.*
6 BIOL electives
NOTE: A minimum of 3 credits must be completed from each of the four subject areas within the first 60 credits.

A minimum of 12 credits in 400-level Biology courses must be completed excluding C490.
**Students entering the programme with CEGEP Organic Chemistry must replace these credits with Biology electives.*

60 BSc Specialization in Biology

An approved sequence of courses from the following selection constitutes a Specialization in Biology.

18 CHEM C221^{3*} and C222^{3*}, C371^{6} (or BIOL C361^{3} and C362^{3}), BIOL C222^{3}, C260^{3}
6 BIOL C333^{6} or C348^{6} or C364^{3} and C464^{3}
30 Selected from *A. Zoology courses, B. Botany courses, C. Ecology courses, D. Cell and Molecular Biology courses.*
6 BIOL electives
NOTE: A minimum of 3 credits must be completed from each of the four subject areas within the first 60 credits.

A minimum of 9 credits in 400-level Biology courses must be completed excluding C490.
**Students entering the programme with CEGEP Organic Chemistry must replace these credits with Biology electives.*

36 BSc Major in Biology

An approved sequence of courses from the following selection constitutes a Major in Biology.

9 CHEM C221^{3*} and C222^{3*}, BIOL C260^{3}
6 Selected from CHEM C371^{6}, BIOL C222^{3}, C333^{6}, C348^{6}, C361^{3}, C362^{3}, C364^{3} and C464^{3}
15 Selected from *A. Zoology courses, B. Botany courses, C. Ecology courses, D. Cell and Molecular Biology courses.*
6 *BIOL electives*
NOTE: A minimum of 3 credits must be completed from each of the four subject areas within the first 60 credits.

A minimum of 6 credits in 300 or 400-level Biology courses must be completed.
**Students entering the programme with CEGEP Organic Chemistry must replace these credits with Biology electives.*

24 Minor in Biology

12 Selected from *A. Zoology courses, B. Botany courses, C. Ecology courses, D. Cell and Molecular Biology courses.*
12 BIOL electives.
NOTE: Minor is open to non-Science students.

Due to the extensive renumbering of Biology Department courses, student are urged to consult with the Department in order to avoid registering for courses which may not be taken in combination or sequence. For a list of equivalent courses please consult Section 200.

BIOLOGY C200
Fundamentals of Human Biology

A series of lectures, demonstrations and seminars to provide non-biologists with a general survey of the fundamental principles of life, with special emphasis on the structures and functions of man. Lectures only. (6 credits)
NOTE: Students registered in a Biology or Biochemistry programme may not take this course for credits.

BIOLOGY C201
Introductory Biology

A survey of basic principles of Organismal Biology: chemical basis of life, cell organization and control; elements of anatomy, taxonomy, physiology, morphogenesis, heredity and evolution. Lectures and laboratory. (3 credits)
NOTE: Students with CEGEP Biology 301 or equivalent may not take this course for credits. Students entering Biology programmes without CEGEP Biology 301 may not take this course for Biology elective credits.

BIOLOGY C203
Fundamental Nutrition

This course deals with food composition (carbohydrates, lipids, proteins, vitamins and minerals), its absorption and utilization, energy balance, special diets and food technology. Lectures only. (3 credits)
NOTE: Students registered in a Biology or Biochemistry programme may not take this course for credits.

BIOLOGY C205
Genetics and Human Welfare

A course on the principles of heredity as understood by modern biology. It deals also with the application of genetic principles to organisms, including man. The biological basis of social problems is dealt with at some length. Organic evolution and its implications for human life and welfare are considered. Lectures only. (6 credits)
NOTE: Students registered in a Biology or Biochemistry programme may not take this course for credits; may not be taken for credit with Biology C206.

BIOLOGY C206
Elementary Genetics

A survey of classical and contemporary developments in the study of heredity with particular attention to human examples. This course is open to the general student body. Lectures only. (3 credits)
NOTE: Students registered in a Biology or Biochemistry programme may not take this course for credits; may not be taken for credit with Biology C205.

BIOLOGY C207
Micro-Organisms and Man

A course designed for non-Science students which will consider the role of microorganisms in plant and animal diseases, food spoilage, cellulose degradation and water pollution as well as their ecological, industrial and pharmacological importance. Lectures only. (3 credits)
NOTE: Students registered in a Biology or Biochemistry programme may not take this course for credits.

BIOLOGY C208
Environmental Biology I

This course examines the principles and concepts of ecosystems, the interaction of organisms and their environment. Energy flow and nutrient cycling in ecosystems, population dynamics and community organization. Lectures only. (3 credits)
NOTE: Students registered in a Biology or Biochemistry programme may not take this course for credits.

BIOLOGY C209
Environmental Biology II

Prerequisite: Biology C208. The course considers both natural and man-made ecological problems, including various aspects of pollution, resource and waste control vital for human survival. Lectures, seminars and tutorials. (3 credits)
NOTE: Students registered in a Biology or Biochemistry programme may not take this course for credits.

BIOLOGY C220
Introductory Cell Biology

Prerequisite: CEGEP Biology 301 or equivalent. Cell biology, elementary biochemistry, developmental biology, physiology and genetics. Lectures and laboratory. (3 credits)

BIOLOGY C222
Biostatistics I

Prerequisites: CEGEP Biology 301 or equivalent. Application of statistical methods to biological data; descriptive statistics, binomial, Poisson and normal distributions; confidence limits; tests of significance, introduction to analysis of variance, correlation and regression; analysis of frequencies. Lectures and laboratory. (3 credits)

BIOLOGY C223
Biostatistics II

Prerequisites: Biology C222 or Mathematics C241. Sampling methods; analysis of variance and experimental design; regression

and correlation techniques; bioassay; non-parametric statistics; analytical methods in field biology, genetics and microbiology. Lectures and laboratory. (3 credits)

BIOLOGY C230
Animal Biology

Prerequisites: CEGEP Biology 301 or equivalent. A survey of the major animal phyla with emphasis on evolutionary trends, structure and function, behaviour and integration of organ systems. Lectures and laboratory. (3 credits)
NOTE: This course may not be taken for credit with Biology C238.

BIOLOGY C232
Entomology I

Prerequisite: Biology 301 or equivalent. This course introduces the student to the variety and complexity of insect life. Basic classification is followed by a more detailed study of morphology and anatomy, together with some physiological considerations, including growth and metamorphosis. Other topics such as adaptations for aquatic life, social behaviour etc. will be discussed. Laboratories will begin with a field trip, the object of which will be to observe and collect various insect species. The remainder of the laboratory sessions will complement the lectures. *Students are advised to begin an insect collection during the summer months preceding the course.* Lectures and laboratory. (3 credits)

BIOLOGY C233
Entomology II

Prerequisite: Biology C232. To the initiated student, this course will present an in-depth study of insect behaviour. Topics will include sensory physiology, insects and plants, light and sound production, population dynamics and insect ecology. An attempt will be made throughout the course to establish a web of interrelationships between the structures and functions of various insect parts. Laboratories will involve the use of live animals and the students may be required to spend additional time for certain experiments. Lectures and laboratory. (3 credits)

BIOLOGY C237
Vertebrate Embryology

Prerequisite: CEGEP Biology 301 or equivalent. The fundamental processes of growth and development in the vertebrates. A comparative study is made of selected vertebrate species with emphasis on the experimental aspects. Lectures and laboratory. (3 credits)
NOTE: Students may not receive credit for this course if taken with Biology C337.

BIOLOGY C238
Invertebrate Zoology

Prerequisite: CEGEP Biology 301 or equivalent. A comprehensive survey designed to provide a detailed understanding of form and function within the invertebrate phyla. Additional topics may include a discussion of current evolutionary theories regarding invertebrates, reproductive and social behaviour, physiology and ecology, especially that of local fauna. Lectures and laboratory. (6 credits)
NOTE: Students who have received credits for Biology C338 may not take this course for credits.

BIOLOGY C240
Plant Biology

Prerequisite: CEGEP Biology 301 or equivalent. A survey of the major plant phyla with emphasis on evolutionary trends, distribution, life cycles, morphology, development, physiology, economy and ecology. Lectures and laboratory. (3 credits)

BIOLOGY C242
Economic Botany

Prerequisite: CEGEP Biology 301 or equivalent. Origin, development and use of selected economic plants including microorganisms. Their historical impact, prospects for future use and importance to the Canadian economy are stressed as well as world-wide problems of food and alimentation. Lectures only. (3 credits)

BIOLOGY C246
Biology of Fresh Water and Marine Algae

Prerequisite: CEGEP Biology 301 or equivalent. Taxonomy, physiology and ecology of algae with special consideration of their involvement in water pollution, sewage treatment, primary production, and their utilization in industry. Lectures and laboratory. (3 credits)

BIOLOGY C250
Fundamentals of Ecology

Prerequisite: Biology 301 or equivalent. An introduction to the basic principles of ecology dealing with the most important components of ecosystems. The course illustrates how environmental factors determine the distribution and abundance of plants and animals in various aquatic and terrestrial biomes of the world. Lectures only. (3 credits)

BIOLOGY C260
Genetics

Prerequisite: CEGEP Biology 301 or equivalent; CEGEP Biology 401 or equivalent recommended. A course to illustrate the fundamental principles of inheritance in plants, animals and microorganisms. Mendelian genetics, gene linkage and mutation will be covered. The role of DNA as the hereditary material and the genetic code will be studied in detail as will the mechanisms of DNA, RNA and protein synthesis. Lectures and laboratory. (3 credits)
NOTE: This course may not be taken for credits with Biology C360.

BIOLOGY C270
Introductory Microbiology

Prerequisite: CEGEP Biology 301 or equivalent. Structure and function, growth and genetics of microorganisms with particular emphasis on bacteria and viruses as related to industry, health, agriculture and ecology. Laboratory exercises will illustrate lecture material and introduce methods of handling microorganisms. Lectures and laboratory. (3 credits)

BIOLOGY C320
History of Biology

Prerequisite: 12 credits from the Department of Biology. The lecture material is oriented toward the beginnings of formal biology in relation to the state of knowledge at the time, and the development of these

ideas up to the beginning of the present century. Emphasis is on broad principles rather than on encyclopedic or biographical notes. Much illustrative or detailed information is provided by the class since each student must present a seminar on a topic chosen from the men, ideas, or technology of biology. Lectures only. (3 credits)

BIOLOGY C321
Evolution

Prerequisite: Any 12 credits from the Department of Biology. A course to examine the concepts leading from Darwin's theory to a modern synthesis of evolution. Lectures only. (3 credits)

BIOLOGY C330
Chordate Anatomy

Prerequisite: Biology C230. A study of the anatomy and evolutionary development of the major organ systems of the chordates. In the laboratory the lamprey, the mudpuppy, the turtle and the cat will be dissected. Lectures and laboratory. (3 credits)
NOTE: This course may not be taken for credit with Biology C331.

BIOLOGY C331
Comparative Vertebrate Anatomy

Prerequisite: Biology C230, C237 or C238. A comprehensive study of the development and structure of the systems of a representative series of vertebrates from a comparative and evolutionary point of view, with some emphasis on the mammals. In the laboratory, representatives of the principal classes of vertebrates will be dissected. Lectures and laboratory. (6 credits)
NOTE: This course may not be taken for credit with C330.

BIOLOGY C332
Parasitology

Prerequisite: Biology C230 or C238 previously or concurrently. A survey of the parasitic groups of invertebrates with special reference to the parasites of man. Lectures and laboratory. (3 credits)
NOTE: This course may not be taken for credit with Biology C339.

BIOLOGY C333
Animal Physiology

Prerequisite: Biology C230, C237 or C238; Chemistry C221 and C222. An integrated study of basic physiological phenomena of vertebrates. Topics discussed include muscle function, nervous system, circulation, respiration, temperature regulation, digestion, metabolism, excretion and endocrinology. Lectures and laboratory. (6 credits)

BIOLOGY C335
Histology I

Prerequisite: Biology C230, C237 or C238; C330 or C331 recommended. A comparative study of the microscopic characteristics of cells, tissues and organs of vertebrates. Lectures and laboratory. (3 credits)

BIOLOGY C336
Histology II

Prerequisite: Biology C335. An advanced comparative study of the vertebrate organ systems at the ultrastructural and histological level. Those registered will be expected to participate in a seminar. Lectures and laboratory. (3 credits)

BIOLOGY C337
Comparative Vertebrate Embryology

Prerequisite: Biology C230 or C238. A detailed study, from the comparative point of view, of the developmental processes and organogenesis in representative vertebrate embryos, leading to an understanding of the structure and function of the human systems. Lectures and laboratory. (6 credits)
NOTE: This course may not be taken for credit with Biology C237.

BIOLOGY C338
Invertebrate Zoology

Prerequisite: BIOL C230. This course covers selected topics illustrating physiological phenomena occurring among several invertebrate phyla. Special emphasis is placed on endocrine control of growth, reproduction and development. The role of environmental factors on these physiological processes is also stressed. Lectures and laboratory. (3 credits)
NOTE: Students who have received credits for BIOL C238 may not take this course for credits.

BIOLOGY C339
General Parasitology

Prerequisite: Biology C230 or C238. A study of the protozoan, helminth and arthropod parasites of man, domestic animals and wildlife. Special emphasis will be placed on the transmission of parasites with reference to the behaviour and ecology of both the host and the parasite. Additional topics will include the evolution of the parasitic way of life, subsequent adaptations and various aspects of the host-parasite relationship. Laboratory: techniques for parasite recovery, basic staining and histological techniques, fecal analysis, identification of parasitic worms, infection of experimental animals. Lectures and laboratory. (6 credits)
NOTE: This course may not be taken for credit with Biology C332.

BIOLOGY C341
Biology of the Fungi

Prerequisite: Biology C270. A study of the morphology, taxonomy, phylogeny and ecology of the fungi; their importance in agriculture, industry, medicine and research will be emphasized. Lectures and laboratory. (3 credits)

BIOLOGY C342
Eastern North American Flora

Prerequisite: Biology C240 previously or concurrently. A study of higher plant life occurring in Eastern North America, including recognition, collection, identification, classification and distribution. Field work for practical experience with the regional flora in various habitats. Lectures and laboratory. (3 credits)

BIOLOGY C343
Biology of Non-Vascular Plants

Prerequisite: Biology C240. A survey of the taxonomy, morphology, life cycles and evolution of representatives of the lower plants (algae, mosses, lichens, liverworts). Lectures only. (3 credits)

BIOLOGY C345
Horticultural Science

Prerequisite: Biology C240. The scientific concepts of horticulture are emphasized. Topics include plant breeding for adaptation to climate, chemical regulation of plant processes and effects on crop yield, environmental factors in crop production, pollutant impact on horticulture, problems in bulk storage, processing and marketing of perishables. The role of horticultural science in meeting world food requirements as well as its impact on society are discussed. Lectures only. (3 credits)

BIOLOGY C347
Plant Anatomy

Prerequisite: Biology C240. A study of the internal structure of the plant as related to the processes of growth and metabolism. An experimental approach is presented to the study of the relationship between structure and function of various parts of the plant. The study of pathological, ecological and economic aspects of anatomy with emphasis on developmental anatomy. Laboratory work includes the preparation of permanent slides using plant microtechnique. Lectures and laboratory. (3 credits)

BIOLOGY C348
Plant Physiology

Prerequisite: Biology C240 and Chemistry C221 and C222. A study of physiological processes of higher plants including mineral nutrition, water absorption, transport, transpiration, photo-synthesis, carbohydrate and nitrogen metabolism, respiration; plant responses to growth regulators, their mechanism of action and their role in plant growth and metabolism. Lectures and laboratory. (6 credits)

BIOLOGY C351
Field and Laboratory Ecology

Prerequisite: Biology C250 and permission of the Department. An introduction to the methods of qualitative and quantitative studies of aquatic and terrestrial ecosystems. Students will gain experience in techniques of field investigation. Field trips and laboratory work. (3 credits)

BIOLOGY C352
Plant Field Ecology

Prerequisite: Biology C240. This course is normally offered for a two-week period during August at the Lacolle Centre. It will involve identification of local plant species, methods of sampling of communities, and examination of the pattern of plant communities in the area. Handling of data on populations and communities will be discussed as well as statistics on population distributions. A mixture of formal lectures, organized field studies and informal discussion. Students will be required to hand in a written report after the course has ended. (3 credits)

BIOLOGY C353
Intermediate Ecology

Prerequisite: Biology C250. An in-depth analysis of factors affecting distribution and abundance of plants and animals. Environmental physiology, adaptations of plants and animals; population structures and behaviour patterns as responses to the physical environment will be discussed. Lectures only. (3 credits)

BIOLOGY C355
Fundamentals of Limnology

Prerequisite: Biology C250, previously or concurrently. An introduction to the study of fresh-water ecosystems with major emphasis on geographical, physical and chemical characteristics. The major topics include the origin of lake basins, lake morphology and morphometry, waves and currents, the optical and thermal properties of lakes, dissolved chemicals. Some aspects of water pollution are considered. Lectures only. (3 credits)

BIOLOGY C356
Microbial Ecology

Prerequisite: Biology C270. The course is designed to give an understanding of the environment in which microorganisms live, the structure of microbial communities, and the ways in which microbes interact during the processes involved in decomposition and nutrient cycling. Stress will be placed on the ecology of soil microorganisms, though aquatic communities will also be discussed. Lectures and laboratory. (3 credits)

BIOLOGY C360
General Genetics

Prerequisite: Biology C230 and C240. A study of the principles and processes of plant, animal and human heredity from the classical foundations through the modern to the recent molecular developments; developmental and population genetics, and evolution. Laboratory: directed experiments with *Drosophila* and other organisms. Lectures and laboratory. (6 credits)
NOTE: This course may not be taken for credit with Biology C260.

BIOLOGY C361
Cellular Metabolism I

Prerequisite: Biology C230, C240 and Chemistry C221 and C222. This course will deal with the simple metabolism of biomolecules in both plants and animals. A basic study of enzymes and their mode of action; nucleic acids and their role in protein synthesis. Distribution of organelles and their metabolism, cellular oxidations and energetics. Lectures only. (3 credits)
NOTE: This course may not be taken for credit with Chemistry C371.

BIOLOGY C362
Cellular Metabolism II

Prerequisite: Biology C361. Designed to follow Biology C361, the course examines the intracellular localization of enzymes, their activity and control from a comparative cellular basis; coenzymes and their importance in intermediary metabolism. Membrane and cell wall synthesis; hormones and their mode of action. Nutritional requirements of organisms. Lectures and laboratory. (3 credits)
NOTE: This course may not be taken for credit with Chemistry C371.

BIOLOGY C363
Genetics of Higher Organisms

Prerequisite: Biology C260. This course will cover various aspects of the genetics of multicellular and eukaryotic organisms, including cytogenetics, developmental, human, behavioural and population genetics, as well as somatic cell genetics. Lectures only. (3 credits)

BIOLOGY C364
Cell Physiology

Prerequisite: CEGEP Biology 401 or Biology C220; Chemistry C221 and C222 previously or concurrently. A survey of the mechanisms involved in functions of single cells and subcellular components, particularly organelles; membrane phenomena, motility, bioenergetics, and cellular responses to environmental stress including ionizing radiation, cold and hydrostatic pressure. Lectures and laboratory. (3 credits)

BIOLOGY C365
Cytology

Prerequisite: CEGEP Biology 401 or equivalent and Chemistry C221 and C222. Cell structure and ultrastructure with reference to organelle function; microscopic and cytochemical techniques of analysis; emphasis is on experimental, molecular and ultrastructure analysis, to achieve a correlation between cell structure and function. Lectures and laboratory. (3 credits)

BIOLOGY C370
Intermediate Microbiology

Prerequisite: Biology C270 and Chemistry C221 and C222; Biology C361 or Chemistry C371 recommended. Designed to continue from Biology C270. Nutrition and metabolism of microorganisms with special emphasis on metabolic processes unique to microorganisms (fermentations, oxidation of inorganic compounds, aerobic respiration, and anaerobic respiration). Basic immunology and immunochemistry; brief discussion of microbes in medicine and industry. Laboratory will include metabolic and serologic methods of identifying microorganisms. Lectures and laboratory. (3 credits)

BIOLOGY C380
Nutrition

Prerequisite: Chemistry C221 and C222; Biology C361 or Chemistry C371 recommended. The concept of a balanced diet will be studied in relation to caloric content, and to protein, lipid, carbohydrate, vitamin and mineral requirements. The consequences of dietary deficiencies will be examined. Special topics such as dieting, organic foods, megavitamins, food additives, and toxins will be discussed. Lectures only. (3 credits)

BIOLOGY C420
Radiation Biology and Radiotracer Methodology I

Prerequisite: Biology C260 or C360 and C364. A survey of the elements of radiation physics with emphasis on the properties of ionizing radiation and its interaction with matter including dosimetry and methods of radiation counting. The effects of radiation at the macromolecular, cellular and organismal level will be considered from both the somatic and genetic points of view. Lectures and laboratory. (3 credits)

BIOLOGY C421
Radiation Biology and Radiotracer Methodology II

Prerequisite: Biology C420. A detailed study of selected topics in chemical and solid state dosimetry, liquid scintillation counting, neutron irradiation techniques, cell kinetics, target theory, radiation botany and mammalian radiobiology. Laboratory will emphasize the use of a wide range of radioisotopes and radiation sources. A visit to a major radiation lab or reactor will be arranged. Lectures and laboratory (3 credits)

BIOLOGY C431
Biology of Fishes

Prerequisite: Biology C330 or C331. This introduction to fish biology will include a study of anatomy, physiology and classification of the major groups of fishes as well as their ecology and zoogeography. Emphasis will be placed on freshwater fishes. Lectures and laboratory. (3 credits)

BIOLOGY C432
Microscopical Techniques

Prerequisite: Biology C335. Histological techniques involved in the preparation of various animal tissues for microscopic study; techniques of microscopy and some practical experience in photomicrography. Lectures and laboratory. (3 credits)

BIOLOGY C433
Neurology

Prerequisite: Biology C330 or C331. A study of the anatomy and physiology of the nervous systems of vertebrates, especially of the mammals and man. Lectures and laboratory. (6 credits)

BIOLOGY C434
Comparative and Environmental Physiology

Prerequisite: Biology C333; Biology C362 or Chemistry C371. This course is designed on a function-system basis and deals with a comparative study of physiological processes in animals, their behaviour and physiological adaptations to the environment. Lectures and laboratory. (6 credits)

BIOLOGY C439
Advanced Topics in Zoology

Prerequisite: Third year standing in a Biology Honours, Specialization or Major programme and permission of the Department. Lectures and seminars or laboratories on recent developments in taxonomy, ecology, physiology or experimental techniques. (3 credits)

BIOLOGY C441
Plant Biochemistry

Prerequisite: Biology C348 or Chemistry C371 or Biology C361 and C362. Biochemical study of the natural constituents and secondary metabolites unique to plants. Their biosynthesis, biotransformations and functions in plants as well as their economic and pharmacologic importance will be stressed. Lectures only. (3 credits)

BIOLOGY C442
Plant Responses to Environmental Stresses

Prerequisite: Biology C348. Morphological, physiological and biochemical responses of plants to various environmental stresses including freezing, drought, light, mineral deficiencies, radiation and environmental pollutants. Lectures only. (3 credits)

BIOLOGY C449
Advanced Topics in Botany

Prerequisite: Third year standing in a Biology Honours, Specialization or Major pro-

gramme and permission of the Department. Lectures and seminars or laboratories on recent developments in taxonomy, ecology, physiology or experimental techniques. (3 credits)

BIOLOGY C450
Aquatic Ecology and Water Pollution

Prerequisite: Biology C355. An inquiry into factors governing the distribution and abundance of aquatic organisms in lakes and streams. Emphasis on the nature and significance of the responses of aquatic organisms and communities through changes in water quality with pollution. Sources and types of pollutants and methods of evaluating pollution and treating wastes. Lectures only. (3 credits)

BIOLOGY C454
Population Ecology

Prerequisite: Biology C353. A theoretical approach to ecological problems. Evolutionary aspects of ecological problems, population dynamics, species diversity, stability of ecosystems, regulation of population size, competition and predation. Lectures only. (3 credits)

BIOLOGY C459
Advanced Topics in Ecology

Prerequisite: Third year standing in a Biology Honours, Specialization or Majors programme and permission of the Department. Lectures and seminars or laboratores on recent developments in plant, microbial, animal, aquatic or population ecology. (3 credits)

BIOLOGY C460
Molecular Genetics

Prerequisite: Biology C260 or C360 and Chemistry C371 previously or concurrently or permission of the Department. Basic microbial and molecular genetics including mechanisms in protein synthesis, bacteriophage recombination. Use of genetics in the study of regulation of gene expression, the code and mechanism in protein synthesis; bacteriophage genetics; episomes. Lectures and conferences. (3 credits)

BIOLOGY C461
Advanced Genetics

Prerequisite: Biology C260 or C360. Directed readings and seminars in classical and contemporary genetics designed to expose the student to research literature and problems. Students will probe in greater depth areas of particular interest in order to develop a critical sense and deepen an understanding of past and current work in this field. Seminars only. (3 credits)

BIOLOGY C462
Immunology

Prerequisite: Biology C364, C260 or C360; Chemistry C371 previously or concurrently. A course in modern immunology stressing the following areas of study: the structure and properties of antigens and antibodies; the nature of the immune response; cellular antibody synthesis; genetic aspects of antibody synthesis; theories relating antibody specificity to genetic potential. Lectures and conferences. (3 credits)

BIOLOGY C463
Developmental Biology

Prerequisite: BIOL C364, C260 or C360; C237 or C337 recommended. A study of the cellular aspects of development of animals and plants in relation to the acquisition of form. Lectures only. (3 credits)

BIOLOGY C464
Advanced Cell Physiology

Prerequisite: Biology C364; Chemistry C371 previously or concurrently. Lectures and seminars dealing with selected topics in cell physiology, emphasizing a molecular experimental approach. Lectures only. (3 credits)

BIOLOGY C465
Biological Regulatory Mechanisms

Prerequisite: Biology C260 or C360; Chemistry C371 previously or concurrently or permission of the Department. Metabolic pathways with an emphasis on their control and coordination; intercellular messengers in developmental and adult systems. Lectures and conferences. (3 credits)

BIOLOGY C467
Cytogenetics

Prerequisite: Biology C365 and C260 or C360 or permission of the Department. A detailed study of plant and animal chromosomes, their structures and normal and abnormal behaviour; species evolution and preservation; various anomalies, ploidy, heterosis, apomixy; human cytogenetics. Lectures and laboratory. (3 credits)

BIOLOGY C469
Advanced Topics in Cell and Molecular Biology

Prerequisite: Third year standing in a Biology Honours, Specialization or Major programme and permission of the Department. Lectures and seminars or laboratories on recent developments in prokaryotic and eukaryotic cellular physiology, genetics, immunology, cytogenetics, or molecular biology. (3 credits)

BIOLOGY C470
Microbial Physiology

Prerequisite: Biology C270, Chemistry C371 previously or concurrently, or permission of the Department. A study of the biochemical activities underlying the life of microorganisms to survey the diverse patterns used by microorganisms in energy metabolism and biosynthesis. Applications of theoretical knowledge to industrial microbiology, including fermentation and antibiotic production will be examined. Lectures and conferences. (3 credits)

BIOLOGY C490
Independent Study

Prerequisite: Third year standing in Honours Biology or permission of the Department. In this course the student undertakes a special research project selected in consultation with and conducted under the supervision of a faculty member of the Department. The project is intended to develop the student's knowledge of standard scientific procedures including methods of researching scientific literature, the planning and execution of experimental and analytical procedures, the writing of a formal report and the presentation of a seminar on the project. (6 credits)

31.7 Bio-Physical Education

Chairman
W. R. SELLERS, *Associate Professor*

Associate Professors
E. F. ENOS
L. N. JANKOWSKI
B. PETRIE
R. SWEDBURG

Assistant Professors
M. L. SQUIRES
D. SPITLER

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

72 BSc Specialization in Bio-Physical Education (Loyola)

Year I
9 BIOP C201^3, C211^3, C261^3
12 MATH C207^3, BIOL C230^3, CHEM C221^3, C222^3
Year II
24 BIOP C310^6, C313^3, C331^3 or C333^3, C351^3, C353^3, C355^3, C357^3
Year III
21 BIOP C401^3, C411^3, C412^6 or C413^3 and C415^3, C451^3, C453^6
6 chosen from BIOP C462^6, C464^3, C466^6, C468^6

48 BSc Major in Bio-Physical Education (Loyola)

Year I
9 BIOP C201^3, C211^3, C261^3
12 MATH C207^3, BIOL C230^3, CHEM C221^3, C222^3
Year II
15 BIOP C313^3, C351^3, C353^3, C355^3, C357^3
Year III
12 BIOP C411^3, C451^3, C453^6

73 BSc Major in Bio-Physical Education with Bio-Chemistry Component (Loyola)

Year I
9 BIOP C201^3, C211^3, C261^3
16 MATH C207^3, BIOL C230^3, CHEM C221^3, C222^3, C231^2, C232^2
Year II
18 BIOP C313^3, C331^3 or C333^3, C351^3, C353^3, C355^3, C357^3
6 CHEM C371^6
Year III
18 BIOP C401^3, C451^3, C453^6 and either C466^6 or C468^6
6 CHEM C471^3, C472^3

24 Minor in Athletic Training

Year I
3 BIOL C230^3
3 Chosen from BIOL C203^3, BIOP C251^3, PHYS C241^3
Year II
9 BIOP C335^3, C337^3, C351^3
Year III
9 BIOP C433^3, C436^6

30 Certificate in Outdoor Education

3 BIOL C208^3
3 GEOL C201^3
18 BIOP C370^6, C470^6, C472^6
6 Chosen from BIOL C209^3, C250^3, BIOP C337^3, GEOG C275^3, INTE C253^3, C254^3, C255^6, PHYS C270^3, HEAL C208^6, GEOL C220^3

Recreation and Leisure Studies

The courses listed below are open to all students, in particular Bio-physical Education Students desiring an increased competency in the field of Recreation and Leisure Studies.
BIOP C241^3, C342^6, C426^6, C464^6
A BA programme in Recreation and Leisure Studies may be followed through the Centre for Interdisciplinary Studies. § 31.19.

BIO-PHYSICAL EDUCATION C201 Philosophical and Sociological Foundations of Health, Physical Education and Recreation

The first part of the course involves the study of the impact of philosophical tenets upon the development of health, physical education and recreation. Subject to critical analysis are the basic concepts of the philosophical schools of idealism, pragmatism, realism, materialism, and existentialism. The second part of the course deals with the relationship between sport and recreational participation, and socialization benefits for the participant. Lectures and Seminars: 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C211 Introduction to Motor Learning

Prerequisite: Mathematics C207. The course is concerned with the capacities people have for processing information. It attempts to demonstrate how these capacities influence performance, the acquisition of skills and in particular sports skills. Also considered are the effects of the following factors: decision making, information theory, reaction time, psychological refractory period, selective attention, memory and others. *Lectures and Seminars:* 3 hours per week. *Labs:* 2 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C241
Recreation and Leisure in Contemporary Society

The course provides a basis for understanding recreation and leisure as increasingly important aspects of our culture. In an era of rapidly changing life styles, with a high incidence of anxiety and frustration, the value of worthy use of free time in maintaining mental and physical health is presented. Topics discussed include: motivations for participation in leisure and recreation; social, psychological and historical foundations of leisure; education for leisure; and the analysis of special problems. Lectures and Seminars: 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C251
Sports Science

An introduction is provided to the science of sports. Various physiological parameters influencing and limiting activity are studied. The influence of personal characteristics, societal and other factors on human performance are investigated. (3 credits)
NOTE: Students registered in the Specialization and Major programmes in Bio-Physical Education may not take this course for credits.

BIO-PHYSICAL EDUCATION C261
Principles and Techniques of Physical Education and Recreation Skills.

The course stresses i) the basic skill acquisition in most of the popular sports ii) the knowledge of the rules in each sport and iii) the observation of teaching progressions and techniques. Also, each sport or activity is analysed from a scientific aspect (i.e. Biomechanical and Physiological) so that the student can understand how and why a skill may be developed. Laboratory: 10 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C310
Methods and Materials in Physical Education and Recreation

Prerequisites: BIOP C211, C261, C313. In the course, teaching is approached as a science. Consideration is given to the needs, interests and characteristics of elementary school age children. Based on this, scientific teaching methods and materials most conducive to learning for this age group are examined. The latest modes of movement education are of major concern. Basic skills and the teaching sequences involved are reviewed. During laboratory sessions, students are afforded the opportunity to teach children and to analyze the effects of various methodological techniques. *Lectures:* 2 hours per week. *Labs:* 4 hours per week. (6 credits)

BIO-PHYSICAL EDUCATION C313
Motor Learning and Human Performance

Prerequisite: Bio-Physical Education C211 or permission of the Department. The principle aim of this course is to examine in more depth the topics of learning. Major consideration is given to the effects that feedback and manipulation may have on the acquisition and improvement of sports skills in performance. *Lectures and Seminars:* 3 hours per week. *Labs:* 2 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C331
Health Science

The subject matter is approached with "health" viewed as the optimal functioning of the human organism. The course synthesizes and applies knowledge from biological, psychological and medical sciences to present the student with a comprehensive understanding of factors influencing personal health. Areas covered include hereditary considerations, growth and development patterns, human sexuality, nutrition, fitness, mental health, diseases, drugs, pathology and environmental ecology. *Lectures:* 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C333
Personal and Community Health Problems

The course examines causes, symptoms and proposes plausible steps which can be taken towards solving individual and community health problems. Consideration is given to alcoholism, drug abuse, mental illness, smoking, sex education, communicable and non-communicable diseases, pollution, industrial and occupational health hazards. *Lectures & Seminars:* 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C335
Prevention of Athletic Injuries

Prerequisite: BIOP C351. An examination is undertaken of age, body structure, heredity and acquired factors in relation to athletic injuries. Reviewed are injuries to the muscular, skeletal and other systems in specific sports and under various conditions. The effects of aerobic, anaerobic, flexibility and strength conditioning programmes in the prevention of traumatic sports injuries and chronic ailments are studied. Research findings are surveyed in the area of testing and fitting of equipment as they relate to injury prevention and safety. Lectures: 3 hours per week. Laboratory: 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C337
Emergency Care of Athletic Injuries

Prerequisite: BIOP C351. Or permission of the Department. Principles and techniques of first aid, emergency care, cardio-pulmonary resuscitation and transportation of the sick and injured are discussed, demonstrated and practiced. Injuries associated with participation in sports, active leisure and physical activities are emphasized. Proper management of wounds, fractures, dislocations, cardio-respiratory arrest, asphyxia, drowning, shock, dehydration and exposure is included. Students successfully completing the course are certified by the St. John's Ambulance Society. Lectures: 2 hours per week. Laboratory: 2 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C342
Principles and Practices of Recreation Services

The course is concerned with the fundamental concepts governing the field of recreation and leisure. Many aspects of programme planning and development are examined, including planning models and principles, classification, evaluation leadership; analyses of programme models in social, cultural and physical recreation, leisure education, therapeutic recreation, as they relate

to the provision of services. Lectures: 3 hours per week. Laboratories/Field Study: 1 hour per week. (6 credits)

BIO-PHYSICAL EDUCATION C351
Structural Human Anatomy

The course is a study of gross and functional anatomy, with major emphasis on the skeletal, muscular and nervous systems. *Lectures:* 3 hours per week. *Labs and Cadaver Demonstrations:* 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C353
Human Physiology

Prerequisite: BIOL C230 and a university level chemistry course. The course analyzes the functional organization and integration of the muscular system and of the nervous and hormonal systems controlling movements in man. Due to the close relationships, the special senses and the reproductive systems also are examined in this course. *Lectures:* 3 hours per week. *Labs:* 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C355
Systemic Human Anatomy

Prerequisite: BIOP C351. The course is a study of the organ systems of the human body with major emphasis on the circulatory, respiratory, digestive, excretory, reproductive and endocrine systems. *Lectures:* 3 hours per week. *Labs and Cadaver Demonstrations:* 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C357
Cardiovascular — Respiratory Physiology

Prerequisite: BIOP C353. The major concern of the course is to examine the functional organization and integration of the cardiovascular and respiratory systems which provide nutrients for man's energy metabolism. Related to this, the dynamics of metabolism processes, digestive and excretory systems also are analyzed. *Lectures & Seminars:* 3 hours per week. *Labs:* 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C370
Scientific Foundations of Outdoor Education and Recreation

The course examines different models of outdoor education as strategies in the educational process. Analyses are made of the use of outdoor settings in terms of providing direct experiences for building concepts and developing concerns about man and his environment. Fundamental principles covered include: man's adaptation to various environments, environmental studies, physical education skills, camping and hiking. Lectures, Laboratories and Field Study. (6 credits)

BIO-PHYSICAL EDUCATION C393
Selected Topics in Bio-Physical Education

Prerequisite: Permission of the department. This course focuses on current topics of interest in the field of Bio-Physical Education. The content will depend upon the theme designated by the department when the course is offered. The course will draw upon the expertise of individuals and visiting guest lecturers. (3 credits)

BIO-PHYSICAL EDUCATION C395
Selected Topics in Bio-Physical Education

Prerequisite: Permission of the department. A student may repeat BIOP C393, provided that the content is different, by registering for credits under BIOP C395. (3 credits)

BIO-PHYSICAL EDUCATION C397
Selected Topics in Bio-Physical Education

Prerequisite: Permission of the department. This course focuses on current topics of interest in the field of Bio-Physical Education. The content will depend upon the theme designated by the department when the course is offered. The course will draw upon the expertise of individuals and visiting guest lecturers. (3 credits)

BIO-PHYSICAL EDUCATION C399
Selected Topics in Bio-Physical Education

Prerequisite: Permission of the department. A student may repeat BIOP C397, provided that the content is different, by registering for credits under BIOP C399. (3 credits)

BIO-PHYSICAL EDUCATION C401
Adapted Corrective and Rehabilitative Physical Education and Recreation

Programmes and activities for individuals with physical, mental, social and/or emotional dys-functions are analyzed in the course. An exploration is conducted of the nature and causes of common handicaps including orthopaedic, cardiopathic, visual, auditory, mental retardation, cerebral palsy and general learning disabilities. Current adaptive, corrective and remedial techniques are reviewed in laboratory sessions, students are provided with the opportunity to teach special activities and exercises to handicapped children. *Lectures:* 2 hours per week; *Labs:* 4 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C411
Tests, Measurements and the Research Process in Physical Education and Recreation

Prerequisite: MATH C207 and third-year standing in Bio-Physical Education. The course provides an understanding of the logic of science and the procedures involved in experimental design, data collection, analysis, and interpretation. The specific methodological techniques of the natural, biological, and social sciences which apply to Bio-Physical Education are presented and critically discussed, with particular reference to the standardized tests utilized by professionals in the field. Lectures: 3 hours per week. Laboratories: 1 hour per week. (3 credits)

BIO-PHYSICAL EDUCATION C412
Advanced Methods and Materials in Physical Education and Recreation

Prerequisite: Third year standing and consent of Instructor. The interactive behaviour between student and teacher is to be approached scientifically. Among topics considered are history and philosophy of physical education, modern trends in education and their adaption to the physical education field, Mosston's spectrum of styles, T.E.T.

(Teacher Effectiveness Training), learning performance criteria, pupil's perception of teacher influence, behavioural objectives, values clarification, leadership theory, curriculum and daily lesson planning. In the laboratory periods, students are given the opportunity for practicing various methodological techniques on peers and on adolescents and young adults in academic or recreational settings. (6 credits)

BIO-PHYSICAL EDUCATION C413
Physical Education in the Early Childhood Curriculum I: Psycho-Motor Learning

The psychomotor domain of learning in young children is of major concern in this course. Principles of perceptual motor feedback processes are studied in detail. Application of these principles to motor learning in the early childhood curriculum is analyzed. The interrelationships of cognitive and psychomotor development are studied for symbiotic cause and effect relationships. *Lectures:* 2 hours per week. *Labs:* 2 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C415
Physical Education in the Early Childhood Curriculum II: Eurhythmics

The utilization of rhythmic activities as a learning mode in the early childhood curriculum is studied from both a practical and theoretical perspective. Students examine rhythms as a means of developing kinesthetic awareness, understanding the role of coordination and timing in the performance of complex movement patterns. Interaction with young children to discover first hand how rhythms are involved in developmental sequences constitutes the practical aspects of the course. *Lectures:* 2 hours per week. *Labs:* 2 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C421
Organization and Administration of Physical Education and Recreation Programmes and Facilities

The course examines and applies fundamental concepts of business administration to the field of physical education and recreation. Topics covered include organizational structures, management systems, equipment purchasing and control, promotion, public relations, theories of motivation and scheduling which can be applied in the school and community. *Lectures and Seminars:* 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C426
Administration of Recreation Services

Analysis of the processes involved in planning and managing leisure service delivery systems. Topics to be studied include: principles of planning, organization, zero-based budgeting, financial control, supervision. The course exposes the students, through field study, to a variety of management procedures currently used in the field. Lectures, Laboratories and Field Study. (6 credits)

BIO-PHYSICAL EDUCATION C433
Rehabilitation and Treatment of Athletic Injuries

Prerequisite: BIOP C337 or consent of professional staff. The role and relationship of the sports therapist to the physician, nurse and physiotherapist in the rehabilitation and treatment of athletic injuries is studied. Subject to review are thermal and cryotherapy, and the use of diathermy, ultrasonic, whirlpool, defibrillator and other equipment. Emergency treatment, methods of transportation and legal aspects are discussed. An introduction also is provided to basic counselling techniques. Lectures: 3 hours per week. Laboratories: 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C436
Sports Medicine

Prerequisite: BIOP C433 or consent of professional staff. An introduction to the application of medical science to the field of sports is provided. Selected topics in endocrinology including hormal imbalance, fatigue, depression, aggression and the jet fatigue syndrome in relation to athletic performance. Discussed are disturbances of the gastro-intestinal tract and dietary considerations. Gynecological problems, pharmacology, including the effect of ergogentic aids, current medical flexible casting and taping techniques are covered. (6 credits)

BIO-PHYSICAL EDUCATION C451
Kinesiology

Prerequisite: BIOP C351, a post-secondary school physics course preferably Physics C241 and third-year standing in Bio-Physical Education. The course involves a study of anatomical, mechanical and descriptive analyses of basic human movement and specific sport skills; included is an examination of the skeletal, muscular and the nervous systems and their application to the teaching and coaching of efficient motor performance. *Lectures:* 3 hours per week. *Labs:* 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C453
Physiology of Exercise

Prerequisite: BIOP C355 and C357 or Biology C333. In this course physiological principles are examined as they apply to man's acute and chronic adaptation to physical activity. Using the physiological principles as guidelines training programmes to enhance muscle strength, cardio-respiratory endurance, flexibility and other components of fitness are studied. The effect of factors such as environmental temperature, altitude and age on physical performance is also given consideration. Students learn to assess physical fitness through the measurement of selected physiological parameters and on the basis of the results prescribe exercises and training programmes to enhance physical performance in general or for a specific sport. *Lectures:* 3 hours per week. *Lab:* 3 hours per week. (6 credits)

BIO-PHYSICAL EDUCATION C455
Preventive Medicine and Geriatrics

Prerequisite: BIOP C453, the equivalent, or permission of the department. The course focuses on the physiological, psychological and sociological needs of adults, in particular, geriatric patients. The aging process is examined as it influences the choice of physical activities. In addition, the preventive aspect of physical activity and its effects on the medical problems associated with aging are studied. Methods of implementing and evaluating preventive programmes are analyzed. Disorders of the metabolic pro-

cesses, neuromuscular, cardiovascular and respiratory systems receive prime consideration. *Lectures:* 2 hours per week. *Labs:* 3 hours per week. (3 credits)

BIO-PHYSICAL EDUCATION C462
Teaching Internship

Prerequisite: The course is open to University III level Bio-Physical Education Majors and Recreational and Leisure Studies Majors who have followed the programming option of a Recreation and Leisure Studies Major. The practicum begins with seminar sessions, during which each student formulates lesson plans, units of instruction, scientific teaching methods and means of evaluation. This aspect of the course is completed in cooperation with and subject to the approval of participating institutions and instructors. Subsequently, students assume a supervised teaching position for a six-week 240-hour period. The teaching internship commences immediately following the student's last final examination. (6 credits)

BIO-PHYSICAL EDUCATION C464
Recreation Internship

Prerequisite: This course is open only to University III level Bio-Physical Education or Recreation and Leisure Studies Majors. In consultation with their mentors, students are given the opportunity to study theoretical and practical problems confronting professionals in the field of Recreation. The course offers a supervised period of work with a selected organization. Each student, during seminar sessions, formulates a study proposal. The practicum commences based upon the approved proposal, immediately following the student's last final examination. The course involves a minimum of a six-week 240-hour period. (6 credits)

BIO-PHYSICAL EDUCATION C466
Para-Medical Internship

Prerequisite: The course is open only to University III level Bio-Physical Education or Recreation Majors. In consultation with their advisor, students are given the opportunity to study theoretical and practical problems confronting para-medical professionals in the field. The course offers a supervised period of work as sports therapist, activity leader in a hospital or rehabilitative centre, a technician in a physiological evaluation laboratory or related position. Each student, during seminar sessions, formulates a study proposal, immediately following the student's last final examination. The course involves a minimum of a six-week 240-hour period. (6 credits)

BIO-PHYSICAL EDUCATION C468
Research Internship

Prerequisite: The course is open only to University III level Bio-Physical Education and Recreation and Leisure Studies Majors. In consultation with their adviser, students are given the opportunity to study theoretical, practical and scientific problems related to the fields of Bio-Physical Education, Health and Recreation. Each student, during seminar sessions, formulates a study proposal. The practicum commences, based upon the approved proposal, immediately following the student's last final examination. The practicum involves working as a member of a research team and reporting the experience. The course involves a minimum of a six-week 240-hour period. (6 credits)

BIO-PHYSICAL EDUCATION C470
Outdoor Education in the Elementary School Curriculum

The course offers a comprehensive analysis of outdoor education at the elementary school level. The aims and objectives of outdoor education are all examined; methods and materials utilized; the organization and administration of model programmes; innovative units of instruction, and evaluation of outdoor education programmes. Lectures, Laboratories, Seminars and Field Study. (6 credits)

BIO-PHYSICAL EDUCATION C472
Outdoor Education in the Secondary School Curriculum

The course provides an overview of outdoor education programmes at the secondary school level. Various concepts, planning and development of units of instruction, administration and other facets of outdoor education for the secondary age students are examined. Lectures, Laboratories, Seminars and Field Study. (6 credits)

BIO-PHYSICAL EDUCATION C491
Independent Study in Bio-Physical Education

Prerequisite: Permission of the Department. Students will work on topic(s) chosen in consultation with their department supervisor. The study can include readings, field studies, interviews and field work. An in-depth report of the activities conducted by the student will be presented to the supervisor upon completion of the course. (6 credits)

BIO-PHYSICAL EDUCATION C493
Advanced Topics in Bio-Physical Education

Prerequisite: Consent of professional staff. This course focuses on advanced topics of interest in the field of Bio-Physical Education. The content will be dependent upon the theme designated by the department when the course is offered. The course will draw upon the expertise of individuals and visiting guest lecturers. (3 credits)

BIO-PHYSICAL EDUCATION C495
Advanced Topics in Bio-Physical Education

Prerequisite: Consent of professorial staff. A student may repeat BIOP C493, provided that the content is different, by registering for credits under BIOP C495. (3 credits)

BIO-PHYSICAL EDUCATION C497
Advanced Topics in Bio-Physical Education

Prerequisite: Consent of professorial staff. This course focuses on advanced topics of interest in the field of Bio-Physical Education. The content will be dependent upon the theme designated by the department when the course is offered. The course will draw upon the expertise of individuals and visiting guest lecturers. (3 credits)

BIO-PHYSICAL EDUCATION C499
Advanced Topics in Bio-Physical Education

Prerequisite: Consent of professorial staff. A student may repeat BIOP C497, provided that the content is different, by registering for credits under BIOP C499. (3 credits)

31.8 Chemistry

Chairman
R. E. TOWNSHEND, Associate Professor

Professors
L. D. COLEBROOK
J. G. DICK
A. GRAHAM, S. J.
T. NOGRADY
J. R. UFFORD
R. H. C. VERSCHINGEL

Associate Professors
T. J. ADLEY
P. H. BIRD
M. DOUGHTY
K. EKLER
Z. HAMLET
J. LENOIR
D. McELCHERAN
R. H. PALLEN
R. T. B. RYE
N. SERPONE
O. S. TEE
G. J. TRUDEL
R. A. WESTBURY
R. H. ZIENIUS

Assistant Professors
M. BALDWIN
M. G. HOGBEN
M. J. KORNBLATT
J. PARKES

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

NOTE: The Order of Chemists of Quebec has fully accredited the curricula of i) Honours in Chemistry ii) Specialization in Analytical Chemistry iii) Specialization in Biochemistry iv) Specialization in Chemistry. Upon satisfactory completion of any of the above programmes a graduate is eligible for membership in the Order. A working knowledge of French is required.

72 BSc Honours in Chemistry

Year I
24 CHEM C211^{6}, C221^{3}, C222^{3}, C231^{2}, C232^{2}, C233^{2}, C241^{3}, C242^{3}
3 MATH C220^{3}
Year II
26 CHEM C311^{2}, C316^{1}, C321^{2}, C322^{2}, C329^{2}, C331^{2}, C332^{2}, C338^{2}, C339^{2}, C342^{2}, C348^{1}, C391^{3}, C310^{2} and C315^{1}, or C314^{2} and C319^{1}
Year III
19 CHEM C450^{6}, 3 credits of Physical Chemistry 10 credits at the 400 level (6 credits must be in one area)

60 BSc Specialization in Chemistry

Year I
22 CHEM C211^{6}, C221^{3}, C222^{3}, C231^{2}, C232^{2}, C241^{3}, C242^{3}
3 MATH C220^{3}
Year II
26 CHEM C321^{2}, C322^{2}, C329^{2}, C331^{2}, C332^{2}, C338^{2}, C339^{2}, C342^{2}, C348^{1}, C311^{2}, C316^{1}, C391^{3}, C310^{2} and C315^{1}, or C314^{2} and C319^{1}
Year III
9 3 credits of Physical Chemistry, 6 credits at the 400 level in one area. The nine credits required in Year III must include at least 2 credits of laboratory.

72 BSc Specialization in Biochemistry

Year I
16 CHEM C211^{6}, C221^{3}, C222^{3}, C231^{2}, C232^{2}
6 BIOL C230^{3}, C270^{3}
Year II
23 CHEM C311^{2}, C316^{1}, C321^{2}, C323^{2}, C329^{2}, C331^{2}, C333^{2}, C338^{2}, C339^{2}, C371^{6}
6 BIOL C364^{3} and C260^{3} or C333^{6}
Year III
12 CHEM C434^{3}, C479^{3}, C470^{3}, C471^{3} or C472^{3}
Biochemistry Option
3 400 level Biology
3 credits chosen from CHEM C473^{3}, C474^{3}, C475^{3}
3 credits in Chemistry at the 300 or 400 level
Medicinal Chemistry Option
9 CHEM C473^{3}, C474^{3}, C475^{3}

73 BSc Specialization in Analytical Chemistry

Year I
22 CHEM C211^{6}, C221^{3}, C222^{3}, C231^{2}, C232^{2} C241^{3}, C242^{3}
6 COMP C211^{3}, C221^{3}
Year II
29 CHEM C310^{2}, C311^{2}, C312^{2}, C315^{1}, C316^{1}, C317^{1}, C321^{2}, C322^{2}, C329^{2}, C331^{2}, C332^{2}, C338^{2}, C339^{2}, C342^{2}, C348^{1}, C390^{2}, C399^{1}
Year III
13 CHEM C314^{2}, C319^{1}, C419^{6}, C491^{3}, C498^{3}
3 COMP C311^{3}

42 BSc Major in Chemistry

22 CHEM C221^{3}, C222^{3}, C231^{2}, C232^{2}, C241^{3}, C242^{3}, C211^{6}
20 Chosen from CHEM C310^{2}, C311^{2}, C312^{2}, C313^{2}, C314^{2}, C315^{1}, C316^{1}, C317^{1}, C318^{1},C319^{1}, C321^{2}, C322^{2}, C323^{2}, C326^{2}, C327^{2}, C328^{2}, C329^{2}, C331^{2}, C332^{2}, C333^{2}, C334^{2}, C338^{2}, C339^{2}, C342^{2}, C343^{2}, C348^{1}, C371^{6}, C380^{2}, C390^{2}, C391^{3}, C399^{1}
(Other courses may be selected in consultation with the Department)

42 BSc Major in Biochemistry

Year I

16 CHEM C211[6], C221[3], C222[3], C231[2], C232[2]
3 BIOL C270[3]

Year II

14 CHEM C321[2], C323[2], C329[2], C333[2], C371[6]

Year III

3 CHEM C479[3]
6 credits chosen from CHEM C470[3], C472[3], C473[3], C474[3]

24 Minor in Chemistry

22 CHEM C211[6], C221[3], C222[3], C231[2] C232[2], C241[3], C242[3]
2 credits chosen from Chemistry 300 level courses
(Other combinations may be arranged in consultation with the Department)

32 Certificate in Scientific Measurement (Chemistry Option)

19 CHEM C211[6], C310[2], C314[2], C315[1], C319[1], C390[2], C399[1], C490[3], C499[1]
14 PHYS C295[2], C296[2], C396[5], C397[5]

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

CHEMISTRY C205
General Chemistry I

Stoichiometry, states of matter, atomic structure, electron structure of atoms, the periodic table, periodic properties, bonding, solids. Lectures, tutorials and laboratories. (3 credits)
NOTE: Science students may not take this course for Science credits.

CHEMISTRY C206
General Chemistry II

Prerequisite: Chemistry C205. Thermochemistry, solutions and their properties, equilibrium, ionic equilibrium, pH, buffers, kinetics, reaction mechanisms, other selected topics related to biochemistry, biology and engineering. Lectures, tutorials and laboratories. (3 credits)
NOTE: Science students may not take this course for Science credits.

CHEMISTRY C208
Chemistry for Non-Science Students

This course covers aspects of Chemistry which are of general interest to the non-science student. (3 credits)
NOTE: This course is not a prerequisite for any Chemistry course. This course may not be taken for credit by Science students.

CHEMISTRY C211
Introductory Quantitative Analysis

Prerequisite: CEGEP Chemistry 201; CEGEP Physics 301, CEGEP Mathematics 103 and 203; or equivalent courses. Treatment of analytical data; chemical equilibria as applied to volumetric and gravimetric procedures; general theory of titrations and titration curves; neutralization, precipitation, complexation, oxidation-reduction and non-aqueous titrations, gravimetric analysis; potentiometry and potentiometric titrations; absorptimetric methods. Laboratory is taken concurrently and provides experience in the techniques of analysis discussed in the lectures. Lectures and laboratory. (6 credits)

CHEMISTRY C221
Introductory Organic Chemistry I

Prerequisite: CEGEP CHEM 201 or equivalent. Synthesis, structure and reactivity of saturated and unsaturated hydrocarbons. Elementary stereochemistry. Chemistry of benzene. Lectures and laboratory. (3 credits)

CHEMISTRY C222
Introductory Organic Chemistry II

Prerequisite: Chemistry C221 or one semester CEGEP Organic Chemistry. Synthesis, structure and reactivity of principal functional groups. Simple reaction mechanisms. Lectures and laboratory. (3 credits)

CHEMISTRY C231
Introductory Physical Chemistry I

Prerequisite: CEGEP Chemistry 201; CEGEP Physics 301; CEGEP Mathematics 103 and 203 or equivalent courses. Real gases, equations of state (Van der Waal's, Virial, etc.), first law of thermodynamics, thermochemistry, entropy and the second and third laws of thermodynamics, free energy and chemical equilibrium, electrochemical cells and the Nernst equation, use of activities, Gibbs-Helmholtz equation. Lectures only. (2 credits)

CHEMISTRY C232
Introductory Physical Chemistry II

Prerequisite: Chemistry C231 or an equivalent course. Applications of thermodynamics, to one-, two-, and three-component systems, including the properties of liquids, colligative properties, phase equilibria, kinetic molecular theory, chemical kinetics, the behaviour of electrolytes in solution. Lectures only. (2 credits)

CHEMISTRY C233
Introductory Quantum Chemistry

Prerequisite: Mathematics C220; CEGEP Chemistry 201, CEGEP Physics 301 or equivalent courses. This course is intended to introduce the student to the fundamental ideas of quantum theory as applied to chemistry. Topics covered include the origins of quantum theory, the postulates of quantum mechanics, applications to simple systems, the hydrogen atom, other atoms, and simple molecules. Lecture only. (2 credits)

CHEMISTRY C241
Introduction to Inorganic Chemistry

Prerequisite: CEGEP Chemistry 201; CEGEP Physics 301; CEGEP Mathematics 103 and 203; or equivalent courses. The structure of the atom; Ionic Bonding; Covalent Bonding; Chemical Forces; Acid-Base Chemistry; Chemistry in Aqueous and Non-aqueous solutions. Lectures and laboratory. (3 credits)

CHEMISTRY C242
Chemistry of the Main Group Elements

Prerequisite: CEGEP Chemistry 201; CEGEP Physics 301; CEGEP Mathematics 103 and 203; or equivalent courses. A survey of the properties and reactions of: Hy-

drogen, Group IA Lithium to Cesium, Group IIA Beryllium to Radium, Group IIIA Aluminum to Thallium, Carbon, Group IVB Silicon to Lead, Nitrogen, Group VB Phosphorous to Bismuth, Oxygen, Group VIB Sulphur to Polonium, the Halogens, the Noble Gases, Group IIB Zinc, Cadmium, and Mercury. Lectures and Laboratory. (3 credits)

CHEMISTRY C280
Photographic Chemistry I

Prerequisite: Open to non-Science students, preferably with some high school chemistry. This is a combined lecture and laboratory course in photographic chemistry. It is to be taken in conjunction with Physics C215/C217. Basic chemical principles in the study of the photographic process. Factors affecting the control of development and some chemical reactions involved in the photographic process will be discussed and demonstrated. Lectures and laboratory. (3 credits)

CHEMISTRY C281
Photographic Chemistry II

Prerequisite: Chemistry C280. This is a continuation of Chemistry C280. Manufacturing of photographic emulsion, developer composition, fixer composition, fixation and washing; reversal processing; mechanism of latent image formation and the theory of development will be discussed and demonstrated. Lectures and laboratory. (3 credits)

CHEMISTRY C282
Environmental Chemistry

Prerequisite: CEGEP Chemistry 201 or equivalent. General aspects of environment and ecology; cycles in nature. The chemistry of pollution, air-pollution, water pollution, water treatment. Compounds treated: oxides of carbon, nitrogen and sulphur, hydrocarbons and types of particles. Photochemical and chain reactions. Mercury, lead, oil detergents, insecticides will be examined with regard to their chemistry and their contribution to pollution. Lectures only. (2 credits)

CHEMISTRY C310
Electrochemical Methods of Analysis

Prerequisite: Chemistry C211; Chemistry C315 concurrently. Topics in theory and application involving potentiometry and potentiometric titrations; automated methods; polarization titrations; coulometry and coulometric titrations; electrogravimetry and electrolytic separations; voltammetry and polarography; pulse and sweep methods; amperometric titrations; conductometric techniques; chronopotentiometry and chronoamperometry. Lectures only. (2 credits)

CHEMISTRY C311
Introductory Analytical Organic Chemistry I

Prerequisite: Chemistry C211 and C222, or Chemistry C222 and 6 credits in Biology course(s) with laboratory, Chemistry C316 concurrently. Identification of organic compounds and trace impurities by chemical and instrumental methods. Discussion of analytical procedures, sample preparation and instrumental methods with emphasis on spectroscopic methods. Lectures only. (2 credits)

CHEMISTRY C312
Introductory Analytical Organic Chemistry II

Prerequisite: Chemistry C211 and C222 or Chemistry C222 and 6 credits in Biology course(s) with laboratory, Chemistry C317 concurrently. Separation, purification and identification of organic components in chemical mixtures. Discussion of the basic principles of physical and chemical separations and related instrumentation, with emphasis on chromatographic methods. Lectures only. (2 credits)

CHEMISTRY C313
Environmental Pollution and Pollutant Analysis

Prerequisite: Chemistry C222 and any one of Chemistry C211, C371, Biology C250; Chemistry C318 concurrently. Scope and purpose of environmental chemistry; nature and composition of natural waters; pollution and trace-level substances in water; water analysis; nature and composition of the atmosphere; atmospheric levels of the oxides of carbon, sulphur and nitrogen; organic, inorganic and particulate pollutants in the atmosphere; monitoring and analysis of pollutants in the atmosphere. Lectures only. (2 credits)

CHEMISTRY C314
Optical Methods of Analysis

Prerequisite: Chemistry C211; Chemistry C319 concurrently. Theory and application of absorptimetric, turbidimetric, nephelometric and fluorescence techniques; flame absorption and emission spectroscopy; electrical and plasma arc emission spectroscopy; atomic absorption flame and flameless techniques; X-ray fluorescence and diffraction methods; X-ray microprobe methods; radiochemical techniques. Lectures only. (2 credits)

CHEMISTRY C315
Electrochemical Methods of Analysis Laboratory

Prerequisite: Chemistry C211; Chemistry C310 concurrently. Analytical experiments providing experience in the methods discussed in Chemistry C310. Laboratory only. (1 credit)

CHEMISTRY C316
Introductory Analytical Organic Laboratory I

Prerequisites: Chemistry C211 and C222 or Chemistry C222 and 6 credits in Biology course(s) with laboratory, Chemistry C311 concurrently. Macro and semimicro separation techniques and procedures providing experience in the methods discussed in Chemistry C311. Laboratory only. (1 credit)

CHEMISTRY C317
Introductory Analytical Organic Laboratory II

Prerequisites: Chemistry C311, C316; Chemistry C312 concurrently. Marco and semimicro separation techniques and procedures providing experience in the methods discussed in Chemistry C312. Laboratory only. (1 credit)

CHEMISTRY C318
Environmental Pollution Analysis Laboratory

Prerequisite: Chemistry C222 and any one of Chemistry C211, C371, Biology C250; Chemistry C313 concurrently. Analytical experiments providing experience in the pollutant analysis methods discussed in Chemistry C313. Laboratory only. (1 credit)

CHEMISTRY C319
Optical Methods of Analysis Laboratory

Prerequisite: Chemistry C211; Chemistry C314 concurrently. Analytical experiments providing experience in the methods discussed in Chemistry C314. Laboratory only. (1 credit)

CHEMISTRY C321
Organic Stereochemistry

Prerequisite: Chemistry C222, C232 or C234. Conformational analysis of acyclic and cyclic systems. Relationship to physical properties and chemical reactivity: Chirality, enantiomerism, diastereomerism, prochirality, enantiotopism and diastereotopism. Examples from steriod, carbohydrae and enzyme mediated reactions. Lectures only. (2 credits)

CHEMISTRY C322
Organic Reactions

Prerequisite: Chemistry C321 and C331 previously or concurrently. A mechanistic survey of reactions of major synthetic utility. Determination of reactions mechanisms. Importance of reactive intermediates: carbocations, carbanions, radicals and carbenes. Lectures only. (2 credits)

CHEMISTRY C323
Bio-Organic Chemistry

Prerequisite: Chemistry C321 Chemistry of carbohydrates. Aspects of heterocyclic chemistry particularly as they apply to purines, pyrimidines and important coenzymes: pyridoxal, NADH, thiamine, flavines. Model enzyme studies. Lectures only. (2 credits)

CHEMISTRY C326
Natural Products

Prerequisite: Chemistry C222 or equivalent. Structure determination, synthesis and stereo-chemistry of various natural products. Examples from terpenes, carotenoids, steroids, alkaloids and antibiotics. Lectures only. (2 credits)

CHEMISTRY C327
Industrial Organic Chemistry

Prerequisite: Chemistry C222 or equivalent. Study of various industrial organic processes. Lectures only. (2 credits)

CHEMISTRY C328
Organic Chemistry of Polymers

Prerequisite: Chemistry C222 or equivalent, C232 or C234. Methods and mechanisms of polymer synthesis. Condensation polymerization, addition polymerization, ring opening reactions. Vinyl and diene polymers. Polyesters, polyamides, etc. Lectures only. (2 credits)

CHEMISTRY C329
Organic Reactions Laboratory

Prerequisite: Chemistry C322 or C323 previously or concurrently; Chemistry C331 and C332 or C333 previously or concurrently. Experiments with reactions of synthetic and mechanistic importance. Reactions involving reactive intermediates. Kinetic and thermodynamic control. Rearrangements. Laboratory only. (2 credits)

CHEMISTRY C331
Chemical Kinetics

Prerequisite: Chemistry C232 or C234. Topics in chemical reaction kinetics, including: mechanisms of elementary reactions; theories of chemical reaction rates; free radical reactions; factors influencing rates of reactions in solution; acid-base catalysis; catalysis by enzymes; the Michaelis-Menten mechanism; inhibition in enzyme catalyzed reactions. Lectures only. (2 credits)

CHEMISTRY C332
Intermediate Thermodynamics

Prerequisite: Chemistry C232 or C234. Comparison of closed and open systems. Partial molal quantities. Chemical potential. Real gases. Fugacity. Equilibrium constant. Free energy functions. Ideal solutions. Real solutions. Duhem-Margules equation. Lectures only. (2 credits)

CHEMISTRY C333
Intermediate Physical Chemistry for Biochemists

Prerequisite: Chemistry C234. Activities and standard states for non-electrolytes. Activities and activity coefficients for electrolytes. Electrical and magnetic properties of molecules. Basic electrostatic ideas. Dielectric behaviour. Circular dichroism. Optical rotatory dispersion. Fluorescence. Phosphorescence. Lectures only. (2 credits)

CHEMISTRY C334
Radiation Chemistry

Prerequisite: CEGEP Chemistry 201 or equivalent. A study of the chemical effects caused by ionizing and other nuclear radiations in their passage through matter. A description will be given of the quantitative measure of radiation, energy absorbed, the energy absorption mechanism, the reaction paths of the unstable intermediates (excited molecules, radicals, and ions). A discussion of the mechanism for the radiation-induced dissociation of H 2 O, organic compounds in the gaseous and liquid state and radiation effects in specific solids. Lectures only. (2 credits)

CHEMISTRY C338
Physical Chemistry Laboratory

Prerequisite: Chemistry C232 or C234. Experiments in physical chemistry, to illustrate some of the concepts studied previously, and to acquire basic dexterity in the physical chemistry laboratory. Laboratory only. (2 credits)

CHEMISTRY C339
Physical Chemistry Laboratory

Prerequisite: Chemistry C232 or C234. Further experiments in physical chemistry. The student will be expected to investigate more complex systems, and to write meaningful laboratory reports. Laboratory only. (2 credits)

CHEMISTRY C342
Chemistry of the Transition Elements

Prerequisite: Chemistry C241 and C242, Chemistry C211. Coordination chemistry; structure, theory of bonding, reactivity of transition metal complexes of various coordination numbers. Descriptive chemistry of transition metals of various oxidation states. Organometallic chemistry. Inorganic chemistry in biological systems. Lectures only. (2 credits)

CHEMISTRY C343
Industrial Inorganic Chemistry

Prerequisite: CEGEP Chemistry 201 or an equivalent course. Study of selected industrial inorganic processes. Lectures only. (2 credits)

CHEMISTRY C348
Inorganic Chemistry Laboratory

Prerequisite: Chemistry C342 previously or concurrently. Syntheses of coordination and organometallic compounds requiring various techniques. Determination of various properties of the compounds prepared at the laboratory bench. Laboratory only. (1 credit)

CHEMISTRY C371
Introductory Biochemistry

Prerequisite: Chemistry C222 and for Biochemistry students, Chemistry C234. Fundamental aspects of biochemistry are surveyed. Protein structure and function, enzymology and enzyme kinetics. Carbohydrate metabolism: glycolysis, Krebs cycle, respiratory chain. Phosphogluconate pathway. Intermediary metabolism of lipids and proteins. Biosynthetic pathways of lipids and proteins. Biosynthetic pathways of lipids, proteins, carbohydrates, amino acids and nucleotides. Nucleic acid structures and their function in protein synthesis; control of gene expression. Photosynthesis. Lectures and laboratory. (6 credits).

CHEMISTRY C380
General Industrial Chemistry

Prerequisite: Second year chemistry students or permission of the Department. Board outline of major factors to be considered by the chemical industry when contemplating manufacture of a new product or product group with special emphasis on market determination, customs, tariffs, use of Statistics Canada data, existing or potential competition, inherent advantages or disadvantages. Relative importance of labour versus capital; plant location; transportation considerations; by-product disposition; hazard and pollution considerations; government regulated products; government incentives. Marketing channels; exports considerations; foreign tariffs and non-tariff barriers. Lectures only. (2 credits)

CHEMISTRY C390
Introductory Instrumentation

Prerequisite: Chemistry C211 or two 6-credit Biology courses with laboratory Chemistry C399 concurrently. Introduction to measurement principles. Instrument design and basic techniques; analysis of basic modules in pH meters, potentiometric titrators, polarographs, gas chromatographs, photometers and spectrophotometers to emphasize facility in the use of similar instruments for measurement of specific systems. Lectures only. (2 credits)

CHEMISTRY C391
Chemical Spectroscopy

Prerequisite: Chemistry C222 and C232 or C234. General theories of spectroscopy: classical and quantum mechanical approaches. Infrared, ultraviolet and proton magnetic resonance spectroscopy will be applied to the elucidation of structure of organic molecules. Rates and activation energies by pmr. Lectures, problem periods and laboratory. (3 credits)

CHEMISTRY C399
Introductory Instrumentation Laboratory

Prerequisites: Chemistry C211 or two full laboratory courses in Biology; Chemistry C390 concurrently. Basic RLC circuits, filters, semi-conductors, transistors, transistor amplifiers, difference amplifiers, operational amplifiers. Introduction to mechanical, optical and electrical transducers and recorders; signal-to-noise optimization, digital electronics, logic circuits and automation. Laboratory only. (1 credit)

CHEMISTRY C411
Advanced Analytical Organic Chemistry

Prerequisite: Chemistry C311 and C312, C316 and C317, Chemistry C416 concurrently. Methods and techniques for the analysis of complex organic industrial formulations and natural products. Lectures only. (3 credits)

CHEMISTRY C416
Advanced Analytical Organic Laboratory

Prerequisite: Chemistry C311 and C312, C316, C317. Chemistry C411 concurrently. Experiments in the analysis of industrial formulations and natural products providing experience in the methods discussed in Chemistry C411. Laboratory only. (1 credit)

CHEMISTRY C419
Research Project and Thesis in Analytical Chemistry

Prerequisite: The student must be enrolled in the Specialization in Analytical Chemistry Programme. The student will work on a research project involving a theoretical and/or practical aspect of analytical chemistry, and will write a thesis on the results. The research project will be scrutinized by a committee of members of the Department. Experimental work and theory. (6 credits)

CHEMISTRY C421
Physical Organic Chemistry

Prerequisite: Chemistry C322. Theory and use of sigmatropic pericyclic and electrocyclic reactions. Woodward-Hoffman rules, Moebius-Huckel approach. Application to thermal and photochemical reactions. Introduction to organic photochemistry. Lectures only. (3 credits)

CHEMISTRY C422
Organic Synthesis

Prerequisite: Chemistry C322. Consideration of synthetic strategy and synthesis design. Modern synthetic methods and reagents. Exemplified by syntheses of terpenes, alkaloids, pheromones and novel structures. Lectures and laboratory. (4 credits)

CHEMISTRY C427
Industrial Synthetic Chemistry

Prerequisite: Chemistry C322. Selected study of industrial synthesis of fine chemicals, pharmaceuticals, dyestuffs, etc. Group assignments in scaling up laboratory syntheses to large scale, patent literature, toxicology, pollution and related industrial legislation. Lectures and laboratory. (4 credits)

CHEMISTRY C431
Statistical Thermodynamics

Prerequisite: Chemistry C331, C332 or C333. Elements of probability theory, microcanonical, canonical and grand canonical ensembles; Boltzmann distribution; quantum mechanical treatment of an ideal gas; Fermi-Dirac and Bose-Einstein statistics; Einstein and Debye models of a monatomic crystal; conformation of polymer chains. Lectures only. (3 credits)

CHEMISTRY C432
Selected Topics in Physical Chemistry

Prerequisite: Chemistry C331, C332 or C333. Subject matter will differ from year to year to take advantage of the special interest of the instructor concerned. The course will provide opportunities to senior students for discussion and advanced study in physioal chemistry. Lectures only. (3 credits)

CHEMISTRY C433
Advanced Quantum Chemistry

Prerequisite: Chemistry C233, C332 or C333. This course deals with the theories of valence for both organic and inorganic materials. Topics covered include symmetry, construction and use of character tables, valence bond theory, molecular orbital theory, crystal field theory, ligand field theory. Lectures only. (3 credits)

CHEMISTRY C434
Advanced Physical Chemistry for Biochemists

Prerequisite: Chemistry C333. Thermodynamics applied to biological systems. Surface tension. Capillarity. Surface thermodynamics. Surface films. Adsorption. Electrocapillarity. Electrokinetic effects. Transport properties. Light scattering, Zimm plot. Lectures only. (3 credits)

CHEMISTRY C435
Physical Chemistry of Polymers

Prerequisite: Chemistry C332 or C333 previously or concurrently, C222, Physical properties of polymers; polymer solution theory; molecular weight distributions and fractionation; molecular determinations by colligative properties, light scattering and ultracentrifuge techniques; kinetics of condensation and addition polymerizations; copolymerization. Lectures only. (3 credits)

CHEMISTRY C436
Electrochemistry

Prerequisite: Chemistry C331 and Chemistry C332 or C333. Thermodynamic relations in electrolyte solutions. Strong electrolytes. Electrolytic dissociation. Transport phenomena. Thermodynamics of electrode equilibria. Glass electrode. Electrical double layer. Dependence of electrode reaction rate on potential. Electrochemical kinetics. Lectures only. (3 credits)

CHEMISTRY C439
Advanced Physical Chemistry Laboratory

Prerequisite: Chemistry C331, C332 or C333, C339. Advanced experimentation in chemical kinetics and thermodynamics with complete laboratory reports. Lectures and laboratory. (3 credits)

CHEMISTRY C441
Selected Topics in Inorganic Chemistry

Prerequisite: Chemistry C342. Selected topics in the field of Inorganic Chemistry chosen from current interest in this field. Particular topics may include: Organometallic Chemistry. Kinetics and Mechanisms of Inorganic Reactions, Electronic Spectroscopy of Transition Metal Complexes, Inorganic Photochemistry, Introduction to X-ray Crystallography and other current topics from the literature. Lectures only. (3 credits)

CHEMISTRY C442
Physical Methods in Inorganic Chemistry

Prerequisite: Chemistry C241 and C242; Chemistry C211; Chemistry C391 previously or concurrently. Introduction to symmetry and the character tables. Diffraction methods, X-ray, ESCA, UV-Visible, ORD and CD, EPR, Moessbauer, NQR, NMR, IR and Raman. Lectures only. (3 credits)

CHEMISTRY C449
Laboratory in Synthesis and Techniques in Inorganic Chemistry

Prerequisite: Chemistry C442 previously or concurrently. Some of the techniques discussed in Chemistry C442 will be employed in the laboratory to characterize and determine properties of compounds synthesized at the laboratory bench. Laboratory only. (1 credit)

CHEMISTRY C450
Research Project and Thesis

Prerequisite: Permission of the Department. The student will work on a research project under the direction of a staff member, and will write a thesis on the results. (6 credits)
NOTE: Students planning to take this course must consult with the Chemistry Department as early as possible the year before the final year.

CHEMISTRY C470
Proteins and Lipids-Structure-Function Relationships

Prerequisite: Chemistry C371. Protein conformation in relation to muscle contraction and relaxation including ATP-myosin, actin-myosin and troponin-Ca++ interactions. Structure-function analysis of immunoglobulins and antigens: amino acid sequence, three-dimensionsl structure, antibody diversity, immunity, hypersensitivity, auto-immunity and graft versus host response. Biochemical and physical properties of lipids in relation to functions of biological membranes. Lectures only. (3 credits)

CHEMISTRY C471
Enzyme Kinetics and Mechanism

Prerequisite: Chemistry C371 and C331. Steady state kinetics including derivation of rate equations and the use of initial velocity studies and product inhibition to establish a kinetic mechanism; non-steady state kinet-

ics, isotope effects, energy of activation, etc.; methods used to study the role of amino acid residues in enzymic reactions; roles of various coenzymes and metals in enzyme mechanisms. Lectures only. (3 credits)

CHEMISTRY C472
Selected Topics in Biochemistry

Prerequisite: Permission of the Department. Selected topics in the field of Biochemistry chosen according to the interests of the instructor. Lectures only. (3 credits)

CHEMISTRY C473
Medicinal Chemistry I

Prerequisite: Chemistry C371. Types of drug action. Influence of physicochemical factors on drug activity, solubility partition coefficients, surface activity, molecular geometry, electronic properties, ionization. Receptor theory and methods, drug-receptor interactions of cholinergic, adrenergic and opiate drugs. Lectures only. (3 credits)

CHEMISTRY C474
Medicinal Chemistry II

Prerequisite: Chemistry C371. Theories of drug action. Survey of structure and mechanism of action of selected groups of drugs (e.g. antihistamines, diuretics, antibiotics, psychotropic drugs, steroids, pesticides, etc.) Drug design; modulation of drug metabolism, transport, bioactivation by molecular modification. Antimetabolites. Lectures only. (3 credits)

CHEMISTRY C475
Pharmacology I

Prerequisites: Chemistry C371. Pharmacokinetics, drug metabolism and interaction. Toxicology, carcinogeneticy and teratogeneticy. Drug development and testing. Lectures only. (3 credits)

CHEMISTRY C476
Pharmacology II

Prerequisite: Chemistry C475. Autonomic nervous system pharmacology. Functions of central nervous system, depressants, stimulants. Narcotic analgesics, addiction. Cardiovascular, renal and endocrine pharmacology. Lectures only. (3 credits)

CHEMISTRY C479
Advanced Biochemistry Laboratory

Prerequisite: Chemistry C470, C471 or C472 previously or concurrently. This course deals with the theory and practice of modern biochemical laboratory techniques. Lectures and laboratory. (3 credits)

CHEMISTRY C490
Advanced Instrumentation

Prerequisite: Chemistry C390 and C399. Chemistry C499 concurrently. Instrumental amplifiers, transducers and measurement errors. Analog, time and digital data domains. Optimization of electronic measurements, frequency response, sampling parameters, signal-to-noise enhancement. Micro processors for control, data acquisition and interface to computers. Lectures only. (3 credits)

CHEMISTRY C491
Advanced Spectroscopy

Prerequisite: Chemistry C321, C311 and C316, or C391 C498 concurrently. Theory and uses of NMR and EPR spectroscopies. Mass spectrometry: principles, fragmentation patterns, use in structure elucidation. Lectures only. (3 credits)

CHEMISTRY C498
Advanced Spectroscopy Laboratory

Prerequisite: Chemistry C491 concurrently. Selected experiments to demonstrate the uses of NMR, EPR and mass spectrometry. Laboratory only. (1 credit)

CHEMISTRY C499
Advanced Instrumentation Laboratory

Prerequisite: Chemistry C390 and C399, Chemistry C490 concurrently. Selected experiments to demonstrate the topics discussed in Chemistry C490. Laboratory only. (1 credit)

31.9 Classics

Acting Chairman
L. SANDERS, *Associate Professor*

Professor
P. F. WIDDOWS

Associate Professors
D. BROWN
S. CASEY
E. PRESTON
B. WARDY

Associate Professor of Classics and Linguistics
C. R. BARTON

Assistant Professor of Classics and History
F. E. SHLOSSER

PROGRAMMES

The Department offers courses in Ancient History, in Ancient Greek and Latin, and in classical literature read in the original or in translation. It also offers courses in classical civilization, Pre-History and Archaeology.

The Department offers two programmes. The programme of Classical Philology requires linguistic competence in Ancient Greek and Latin, and is directed towards a comprehensive understanding and appreciation of Ancient History and Literature. The programme of Classical Studies does not require a knowledge of the languages, but is concerned with a broadly based study of ancient society. Students may register for Honours, Specialization, Major or Minor in Classical Studies or Honours, Major or Minor in Classical Philology. Moreover, all courses in these programmes are open as electives to students in other departments.

Students must consult the Department Chairman to select the courses in their programme. For details on suggested programmes see the Classics Brochure. Students are advised to consult the timetable for the campus where individual courses will be offered.

Students admitted to the Honours programme on or after June 1, 1977 are bound by the Honours requirements outlined in 16.2.4 of this calendar. Students who already had Honours status by June 1, 1977 continue to be governed by the requirements which applied at the date of their admission to the Honours programme.

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Honours in Classical Studies

Year I

24 CLAS C211^3, C212^3, C240^3, C242^3, C261^3, C262^3, C264^3, C265^3

Years II and III

36 credits in Classical Studies over the two years, which must include the following courses:

18 CLAS C320^6, C324^3, C325^3, C343^6

The remaining 18 credits may be chosen from the following:

18 CLAS C230^3, C231^3, C241^3, C254^6, C280^6, C290^6, C322^3, C323^3, C344^6, C350^3, C351^3, C352^3, C353^3, C370^6, C446^6, C448^6 or C449^6, C470^3

60 BA Specialization in Classical Studies

Year I

24 CLAS C211^3, C212^3, C240^3, C242^3, C261^3, C262^3, C264^3, C265^3

Years II and III

36 credits in Classical Studies over the two years, which must include the following courses:

18 CLAS C320^6, C324^3, C325^3, C343^6

The remaining 18 credits may be chosen from the following:

18 CLAS C230^3, C231^3, C241^3, C254^6, C280^6, C290^6, C322^3, C323^3, C344^6, C350^3, C351^3, C352^3, C353^3, C370^6, C446^6, C448^6 or C449^6, C470^3

42 BA Major in Classical Studies

Year I

18 CLAS C211^3, C212^3, C240^3, C242^3, C261^3, C262^3

Year II

12 CLAS C320^6, C264^3, C265^3

Year III

12 Chosen from CLAS C324^3 *and* C325^3; C350^3 *and* C351^3; C352^3 *and* C353^3; C254^6, C280^6, C290^6, C343^6, C370^6, C470^3

24 BA Minor in Classical Studies

6 CLAS C211^3, C212^3

6 Chosen from CLAS C240^3, C241^3, C242^3

12 Chosen from CLAS C261^3 and C262^3, C264^3, C265^3, C320^6, C324^3, C325^3, C350^3, C351^3

72 BA Honours in Classical Philology

Year I

18 CLAS C240^3, C242^3, C280^6, C290^6

6 Chosen from CLAS C211^3 and C212^3, C320^6

Years II and III

12 CLAS C380^6 and C390^6

18 Credits of Latin selected from CLAS C490^6, C491^6, C492^6, C493^6, C494^6, C495^3

18 Credits of Greek selected from CLAS C480^6, C481^6, C482^6, C483^6, C484^6, C485^6

42 BA Major in Classical Philology

Year I

18 CLAS C211[3], C212[3], C280[6], C290[6]

Year II

18 CLAS C240[3], C242[3], C380[6], C390[6]

Year III

6 One advanced Latin or Greek course

24 Minor in Classical Philology

24 CLAS credits in either Greek and/or Latin

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

CLASSICAL STUDIES

A. LITERATURE

CLASSICS C211
The Beginnings of European Literature (Greek Literature)

The Greek background of European literature. Selections from Homer, the Greek dramatists, Plato and Aristotle's *Poetics.* (3 credits)

CLASSICS C212
The Beginnings of European Literature (Latin Literature)

The Roman background of European literature. Selections from Lucretius, Catullus, Cicero, Virgil, Horace, Ovid, Seneca and Juvenal. (3 credits)

CLASSICS C320
Greek Drama: Theatre and Democracy in Fifth Century Athens

Essentially a study of the literary and artistic merits of the tragedies of Aeschylus, Sophocles and Euripides, and the comedies of Aristophanes. The ritual origins of drama, mythical sources, and the growth of the dramatic form. Greek theatre as an expression of the democratic movement and of the intellectual revolution in fifth century Athens. (6 credits)
NOTE: Students who have received credit for CLAS C220 may not take this course for credits.

CLASSICS C322
The Comic Art

An investigation into the evolution of comedy from our earliest literary sources to the present. The classical influence in later comic literature. Theories of comedy, ancient and modern. Reading material will be drawn mainly from Greek and Roman dramatic literature. (3 credits)
NOTE: Students who have received credit for CLAS C222 may not take this course for credits.

CLASSICS C323
Roman Satire I

A study of the satiric genre, its birth and development in Roman literature, as seen in the works of Horace, Juvenal, Petronius, Persius and Seneca, with attention to the current social climate and historical events. (3 credits)
NOTE: Students who have received credit for CLAS C223 may not take this course for credits.

CLASSICS C324
Homer and the Epic Hero I

This course will deal principally with the *Iliad* of Homer: its form, content and meaning as an oral epic. Also investigated will be the hero in a warrior society: his privileges, responsibilities and moral values. (3 credits)
NOTE: Students who have received credit for CLAS C224 may not take this course for credits.

CLASSICS C325
Homer and the Epic Hero II

This course will deal mainly with the *Odyssey* of Homer and the *Aeneid* of Virgil. A comparison will also be made between the concept of the hero in ancient and in modern literature. (3 credits)
NOTE: Students who have received credit for CLAS C225 may not take this course for credits.

B. HISTORY

CLASSICS C230
(Also given as History C219)
The Ancient Near East I

A survey of the political, social, economic and intellectual history of the Ancient Near East from the Neolithic age to the Indo-European invasions of the early 2nd Millennium, with special emphasis placed upon the problem of the emergence of civilization in Mesopotamia, Egypt and the Indus valley. Ancient sources utilized wherever possible. (3 credits)

CLASSICS C231
(Also given as History C221)
The Ancient Near East II

A survey of the political, social, economic and intellectual history of the Ancient Near East from the Indo-European invasion of the early 2nd Millennium to the establishment of the Persian empire, with special emphasis placed upon the process of diffusion of civilization throughout the Near Eastern World, the creation of Egyptian, Mesopotamian and Persian Imperialism and the development of Hebrew monotheism. Ancient sources utilized wherever possible. (3 credits)

CLASSICS C240
(Also given as History C223)
Greek History I

A political, social, economic and cultural history of Greece from Minoan-Mycenaean times to the end of Classical Greek civilization in the 4th century B.C., with special emphasis placed upon 5th century Athens. (3 credits)

CLASSICS C241
(Also given as History C224)
Greek History II

A political, social, economic and cultural history of the Greek World from Alexander the Great to the Roman conquest of Greece in 146 B.C. While due attention will be paid to developments within the Hellenistic King-

doms and to the later Greek achievements in art, literature, science, philosophy and religion, the process of fusion of Hellenism with the Orient — vital for the evolution of Judaism, Christianity and Islam — will be extensively explored. (3 credits)

CLASSICS C242
(Also given as History C225)
Roman History

A political, social, economic and cultural history of Rome from the City's origins to the establishment of the Roman Empire under the Emperor Augustus. (3 credits)

CLASSICS C343
(Also given as History C320)
History of the Roman Empire

Prerequisite: Classics C242 (History C225); or permission of instructor. A political, social, economic and cultural history of the Roman Empire from Augustus to Justinian the Great. Attention will be paid to the rise of Christianity and the continuity of Roman law and administration in both the eastern and western parts of the Late Roman Empire. (6 credits)

CLASSICS C344
Propaganda and Political Deception in Greek and Roman History

Prerequisite: An Ancient History Course. An examination of the relationship between political ideas and practice with particular emphasis upon the slogans and false ideologies invented to justify war, peace, and the implementation of political and constitutional programmes by both radical and reactionary elements. Though inevitably the chief sources discussed will be literary, due attention will also be directed towards the value of numismatic, epigraphic, and artistic material as a means of winning over the mind of man. (6 credits)

CLASSICS C446
(Also given as History C321)
Continuity and Change: An Intellectual History of the Late Roman Empire

Prerequisite: One course on the ancient or medieval world. A study of the main intellectual and social forces in the late Roman Empire that contributed most significantly to the formation of European culture. Among those topics treated will be Neo-Platonism, Gnosticism, the Greek and Roman system of education, government and private welfare policies, mystery religions, late Judaism, early Christianity, the religious policy of pagan and Christian Emperors, contemporary art and architecture. (6 credits)
NOTE: Students who have received credit for CLAS C346 may not take this course for credits.

CLASSICS C448
(Also given as History C420)
Alexander the Great and Julius Caesar

Prerequisite: An Ancient History course. A course devoted to the careers of two of the most notable and influential figures in Ancient History, seeking to discover them as they were, the worlds which they conquered, their aims and their achievements. (6 credits)

CLASSICS C449
(Also given as History C422)
Human Beginnings: The Stone Ages

The origin of man and man's place in evolution and in nature. Man the toolmaker: australopithecines, homo habilis, homo erectus, Peking man, Java man, Soloman, and others. The fossil evidence and taxonomic problems. Man the hunter: meat-eating, intelligence, and sexual differentiation. Territoriality and aggression. The struggle for existence and the survival of the fittest: Darwinism, Marxism and sociology.

Palaeolithic cultures: Abbevillean, Acheulean, Clactonian, and Mousterian. Neanderthal and Cro-Magnon mixtures. Man the artist. From Perigordian to Magdalenian. Epipalaeolithic and Mesolithic societies. The Neolithic revolution. Stone Age cultures of today. Importance and relevance of prehistory. Homo ludens. (6 credits)

C. CULTURE & CIVILIZATION

CLASSICS C254
Women in Classical Antiquity

An examination of the social status and political influence of women in ancient Greece and Rome. Particular emphasis will be placed upon the apparent contradiction between the seemingly inferior position occupied by women in fifth-century Athens and the general enlightenment that characterized the epoch. Within this context, the influence of war upon the struggle for feminine emancipation, as seen through the eyes of tragedians, comic writers, philosophers and historians, will be considered. Due attention will also be paid to the movement for feminine emancipation during the Late Roman Republic and early Empire. (6 credits)

CLASSICS C256
A Comparative Study of Judaic and Greek Traditions

The course deals with the problems involved in the encounter of the Judaic and Greek traditions and is designed also for students of philosophy, theology and history.

The end of the First Diaspora. Different currents (exclusiveness versus rapprochement) under Persian rule. Alexander legends. Maccabaean Hellenism. Anti-semitism in Alexandria. The mutual influence between Judaism and Hellenism as manifest in philosophical and religious writings, in symbols and customs. Their importance for the development of Western culture. The destruction of political Judaic independence and gradual intellectualization of Jewish life. The development of the Synagogue and the Tanaitic Academies. (6 credits)

CLASSICS C261
Introduction to Greek and Roman Mythology

This course will explore the nature of Classical Mythology, and will examine the stories about the gods and the heroes of the Greeks and Romans as found in their literature and culture. (3 credits)
NOTE: Students who have received credit for CLAS C260 may not take this course for credit.

CLASSICS C262
Myth and Mythmaking

An examination of the universal features of myth. Recurrent patterns of myth in primitive cultures. Near Eastern Mythologies. (3 credits)
NOTE: Students who have received credit for CLAS C260 may not take this course for credit.

CLASSICS C264
(Also given as History C227)
An Introduction to Archaeology

Archaeology as a science; its purpose, methods, theories, and techniques. The relationship of Archaeology to Pre-History, Ancient History, Fine Arts, and Anthropology. The Neolithic Revolution and the emergence of the earliest civilizations: Mesopotamia, Egypt, India, and China. The Bronze Age in Crete and in Greece. Most of the course will consist in the presentation, classification, dating, and interpretation of selected artifacts. Some work at the Montreal Museum of Fine Arts. (3 credits)

CLASSICS C265
(Also given as History C229)
Greek and Roman Art and Archaeology

The Archaeology of Greece and Rome with particular attention to painting (especially ceramics), sculpture, and architecture. The concept of "style" in archaeology and in art history and criticism. The works of Exekias and Douris, of Phidias and Praxiteles, and of Iktinos and Kratinos as representative of the "ideal" in Classical Greek Art. The Greek and Etruscan influence on Roman Art as well as the native Roman contribution. The falsifications of history and the truth that can be recovered by the archaeologist. Some work at the Montreal Museum of Fine Arts. (3 credits)

CLASSICS C268
Mesoamerican Archaeology

An archaeological and anthropological study of the Pre-Columbian peoples, cultures, and civilizations of ancient Mexico, Belize, Guatemala, and Honduras: The Olmec "mother culture" Izape, Monte Alban, Tlatilco, and Teotihuacan. The glory and the grandeur of the Maya. Form and iconography in Mesoamerican art. From the Toltecs to the Aztecs. An aesthetic appreciation of Pre-Columbian art and architecture. Current excavations, theories, and controversies among Americanists. Some work at the Montreal Museum of Fine Arts. (3 credits)

CLASSICS C269
South American Archaeology

An archaeological and anthropological study of the Pre-Columbian peoples, cultures, and civilizations of ancient Peru, Columbia, Ecuador, Bolivia, and Chile: the "mother culture" of Chavin de Huantar. Valdivian pottery and stone age (Jomon) Japan. The great empires of Peru before the Incas: Huari-Tiahuanaco, Chan Chan, and Chimu. Paracas, Nazca, and Mochica art. The "tears of the sun" and the coming of the Incas. Characteristics of Inca civilization. A survey of current excavations and research. Some work at the Montreal Museum of Fine Arts. (3 credits)

CLASSICS C350
Greeks and the Afterlife

A study of ideas of immortality as reflected in classical Greek literature. An examination of myths, mystery religions and schools of philosophical thought. This literary survey will include readings translated from the works of Homer, Hesiod, Sophocles, Euripides and Plato. (3 credits)
NOTE: Students who have received credit for CLAS C250 may not take this course for credit.

CLASSICS C351
Romans and the Afterlife

A study of the growth of early Roman customs connected with the supernatural. Burial practices and tomb paintings of the Etruscans. Popular Roman concepts of the underworld and the influence of Greek myth. The intellectual influence of Greek philosophy on later Roman religious thought as reflected in the works of Cicero and Lucretius. Religion and the patriotic ideal in the Augustan revival as reflected in Vigil's *Aeneid.* (3 credits)
NOTE: Students who have received credit for CLAS C251 may not take this course for credit.

CLASSICS C352
Love, Hate and Friendship in the Classical World I

The growth and failure of human relationships were of intimate concern to men and women in the ancient world, as they are today. This course will investigate in the literature of classical times the evolving shape of human encounter in terms of three basic emotions: love, hate and friendship. The theme "love" will be examined as expressed in the *Odyssey* of Homer and especially in the love poetry of Greece and Rome. (3 credits)
NOTE: Students who have received credit for CLAS C252 may not take this course for credit.

CLASSICS C353
Love, Hate and Friendship in the Classical World II

The theme "hate and revenge" will be seen in its most tragic form in the *Iliad* of Homer and in the plays of the Greek dramatists. The third theme, "friendship", will be examined in its elemental form in the *Iliad* of Homer, and then in its urbane expression in the works of Plato and Cicero. (3 credits)
NOTE: Students who have received credit for CLAS C253 may not take this course for credit.

SPECIAL COURSES
(either Philology or Classical Studies)

CLASSICS C370
Selected Topics in Classics

Content and prerequisite will depend on the theme assigned by the Department. (6 credits)

CLASSICS C371
Selected Topics in Classics

A student may repeat Classics C370 provided the content is different, by registering for credits under Classics C371. (6 credits)

CLASSICS C470
Advanced Topics in Classics

This course treats advanced topics of interest in Classics. Content and prerequisite will depend on the theme assigned by the Department. (3 credits)

CLASSICS C471
Advanced Topics in Classics

A student may repeat Classics C470 provided the content is different, by registering for credits under Classics C471. (3 credits)

CLASSICAL PHILOLOGY

A. CLASSICAL GREEK

CLASSICS C280
Elementary Classical Greek

A course for those with no previous knowledge of Greek. Major emphasis will be placed on assisting the student in acquiring a reading command of the language. This course is designed not only for those interested in classical literature but also for students in the departments of history, philosophy and theology. (6 credits)

CLASSICS C380
Intermediate Classical Greek

Prerequisite: Classics C280 or equivalent. Further work towards the acquisition of a reading command of the language. Readings from works such as Plato's *Apology* and *Crito,* Xenophon's *Anabasis,* and the *New Testament.* (6 credits)

CLASSICS C480
Greek Historians

Prerequisite: Classics C380 or equivalent. Selections from Herodotus, Thucydides and others. (6 credits)

CLASSICS C481
Plato

Prerequisite: Classics C380 or equivalent. Selections from *The Republic* and other major dialogues. (6 credits)

CLASSICS C482
Homer

Prerequisite: Classics C380 or equivalent. Extensive readings from the two epics in Greek; both works in their entirety in English. (6 credits)

CLASSICS C483
Greek Tragedians

Prerequisite: Classics C380 or equivalent previously or concurrently. Representative dramas from Aeschylus, Sophocles and Euripides. (6 credits)

CLASSICS C484
Greek Orators

Prerequisite: Classics C380 or equivalent. Selections from Demosthenes and other Attic orators. (6 credits)

CLASSICS C485
Greek Comedy

Prerequisite: Classics C380 or equivalent. Plays of Aristophanes and Menander. (6 credits)

B. LATIN

CLASSICS C290
Elementary Latin

A course for those with no previous knowledge of Latin. Major emphasis will be placed on assisting the student in acquiring a reading command of the language. Open to all students but especially for those interested in classical languages, history, philosophy and theology. (6 credits)

CLASSICS C390
Intermediate Latin

Prerequisite: Classics C290 or equivalent. Further work towards the acquisition of a reading-command of the language. Selections from Cicero, Catullus and Pliny or Seneca. (6 credits)

CLASSICS C490
Roman Historians

Prerequisite: Classics C390 or equivalent previously or concurrently. Selections from Sallust, Livy and Tacitus. (6 credits)

CLASSICS C491
Cicero

Prerequisite: Classics C390 or equivalent. Careful examination of selections from the letters and the oratorical and philosophical works. (6 credits)

CLASSICS C492
Roman Poetry I

Prerequisite: Classics C390 or equivalent. Selections from Horace and Virgil. (6 credits)

CLASSICS C493
Roman Poetry II

Prerequisite: Classics C390 or equivalent. Selections from Ovid and Lucretius. (6 credits)

CLASSICS C494
Late Latin

Prerequisite: Classics C390 or equivalent. A study of selected texts from the works of patristic and medieval writers. This course is directed especially to students of history, philosophy and theology. (6 credits)

CLASSICS C495
Roman Comedy

Prerequisite: Classics C390 or equivalent. Selections from Plautus and Terence. (3 credits)

CLASSICS C496
Roman Satire II

Prerequisite: Classics C390 or equivalent. Selections from Juvenal, Petronius, Persius and Seneca. (3 credits)

31.10 Communication Studies

Chairman
C. J. FISCHER, *Associate Professor*

Professors
J. BUELL
M. MALIK
J. E. O'BRIEN

Associate Professors
M. GERVAIS
T. KOVATS
G. VALASKAKIS

Assistant Professors
D. DINIACOPOULOS
T. GECSEI
W. GILSDORF
J. HARRISON
R. MILLER
D. MURPHY

PROGRAMMES

Students are responsible for satisfying their particular degree requirements. The superscript indicates credit value

The Department offers two programmes of study:

a) *Bachelor of Arts, Specialization in Communication Studies*
consisting of 60 credits in Communication Studies and 30 credits from electives outside the Department.

b) *Bachelor of Arts, Major in Communication Studies*
consisting of 42 credits in Communication Studies and 48 credits from electives outside the Department.

Elective credits are understood as courses taken in other Departments or Faculties of the University. Credits in Communication Studies (Loyola Campus) or Cinema (Sir George Williams Campus) may not be used in lieu of electives.

200-level courses are normally taken in first year, 300-level courses in second year, 400-level courses in third year.

60 BA Specialization in Communication Studies (Loyola)

18 COMS C230[3], C240[3], C255[3], C275[3], C278[3], C284[3]
12 Chosen from courses in Group A
12 Chosen from courses in Group B
6 Chosen from courses in Group C
12 Chosen from courses in Group A or B, or with the approval of the Department in Group C or cognate courses outside the Department

42 BA Major in Communication Studies (Loyola)

18 COMS C230[3], C240[3], C255[3], C275[3], C278[3], C284[3]
6 Chosen from courses in Group A
6 Chosen from courses in Group B
6 Chosen from courses in Group C
6 Chosen from courses in Group A or B

Department Objectives

The Department of Communication Studies, founded in 1965 as Communication Arts, the first at a Canadian university, has developed a programme that combines the study of the major media with the Humanities and Sciences needed for their understanding and optimal use.

The program is designed to provide students with a high level of media literacy and with a grasp of the scientific, technological, social, and historical contexts of modern media and communication. It is multi-disciplinary both within its own curriculum and in its recommended electives in the humanities, sciences, and social sciences which are integral to the programme.

Intellectually and critically, both in seminar rooms and laboratories, the primary concern is to investigate "media man" and "media world", to understand more fully the role of media in society, to examine critically the goals of society as projected in media, and to assess realistically the responsibilities of media vis-à-vis that society. To this end, students are encouraged to develop a personal artistic and ethical statement on the quality of life and the goals of society.

Integrated with this, the student's creative work starts with acquiring skills in the basic technology of the media, and understanding these media as communicational modes. This is followed and enlarged by a concentration on the rhetorical and artistic dynamics of media (be it film, television, radiosound, photo, etc.) and on the content of a work created in a particular medium.

The curriculum is designed:

1. for students who intend to pursue graduate studies in communication;
2. for future writers, critics, communication studies consultants, directors, and performers;
3. for future teachers in all aspects of radio, television, film, photography (research, theory or practical);
4. for students who plan a career in the areas of publicity, promotion, advertising and public relations.

Facilities

The department has one television-film studio, 7-source video input, 2'' — 1'' — ½'' videotape recording and editing facilities, 14 portable TV cameras, 7x 16mm units, 16mm sync and editing units, and complete super 8mm sync sound/film units; photographic laboratories, an optical laboratory, an holographic and laser laboratory, multiple sound facilities, a research studio for the measurement of visual and audio information loads, and electronic and electromechanical programmer for multi-media use, a multi-media room, and a learning centre with audio-film-video terminals for independent study.

Department Admission Requirements

Applications repeatedly outnumber the Department's space and faculty. To permit a fair and informed selection we ask applicants to provide adequate information about themselves, their work, and their aims. For this purpose, applicants are requested to submit the following.

1) A comprehensive letter of intention stating clearly and effectively why the applicant wishes to enroll in the Department of Communication Studies in particular. (This letter is critical.)
2) Meaningful letters of recommendation, at least two of which should be from teachers who are acquainted with the applicant's talents and ability.
3) A complete record of all studies to the present time, including those courses in which the applicant is now enrolled.
4) One or two examples of creative effort in any medium of expression.
5) An interview which will include discussion of any or all of the above, plus any topics that the committee feels will provide insight into the candidate's potential for university-level study of media.

Applications and all supporting documents should be sent before March 15th to the Admissions Committee, Department of Communication Studies, Loyola Campus of Concordia University, 7141 Sherbrooke St. W., Montreal H4B 1R6, Quebec.

Diploma in Communication Studies

The Department also offers a one-year diploma programme for students who have completed their undergraduate degree in another field. Detailed information on the programme is given in the University's Calendar of Graduate Studies.

Please note that new course numbers were implemented in 1977-78 and 1979-80. For equivalent course numbers under the old system, please consult § 200.5.

NOTE: Unless otherwise indicated registration in Communication Studies courses is open only to students registered in Specialization or Major programmes in Communication Studies

COMMUNICATION STUDIES C230
Basic Writing for the Media

This course is designed to provide knowledge of and the practice in the special written forms and formats utilised by the media. Assignments are practically oriented toward possible student productions. (3 credits)

COMMUNICATION STUDIES C240
Communication Theory

Through lectures, discussions and selected readings from the works of key theoreticians, this course introduces students to major approaches to the understanding of the process of communication. (3 credits)

COMMUNICATION STUDIES C255
Communication Analysis

General and detailed analysis of various information complexes, e.g., museums, galleries, exhibitions, countrysides, landscapes, city streets, highways, department stores, churches, etc., from the point of information values used to influence future prospective audiences of films, television programmes or exhibition and theatre visitors. The basic values of light, space, sound, picture, words and exhibit structures will be explored through individual student projects in real locations. Students will work on individual projects under the supervision of the directing professor. Tutorial course. (3 credits)

COMMUNICATION STUDIES C275
Visual Dynamics I

In this course students are led to discover fundamental laws which underlie visual representation. The overall method is basic experiments in vision and perception: to explore distances, planes, tones, colour light, etc. Photography is the medium by which these experiments are recorded for observation and discussion. *Lectures and Laboratory average 6 hours per week. Students are required to bear some of the cost of materials.* (3 credits)

COMMUNICATION STUDIES C278
Seminar and Practicum in Sound I

This course is designed to provide the student with a basic working knowledge of audio systems both natural and electronic, to understand the various affective and psychological qualities of sound, and how sound may be structured into imaginative aural forms. *Lectures and Laboratory: average 6 hours per week. Students are required to bear some of the cost of materials.* (3 credits)

COMMUNICATION STUDIES C284
Seminar and Practicum in Film and Video I

A practical approach to an understanding of the common elements of film and video media, and of the specific differences inherent in their effective use. Course methodology includes lectures, screenings, readings, portapak video and Super 8 mm. film productions. Lectures and Laboratory: average 6 hours per week. Students are required to bear some of the costs of materials. (3 credits)

GROUP A

COMMUNICATION STUDIES C300
Selected Topics in Communication Studies

Content will depend on the theme designated by the Department, (3 credits)

COMMUNICATION STUDIES C301
Selected Topics in Communication Studies

A student may repeat COMS C300, provided that the content is different, by registering for credits under COMS C301. (3 credits)

COMMUNICATION STUDIES C302
Selected Topics in Communication Studies

Content will depend on the theme designated by the Department. (3 credits)

COMMUNICATION STUDIES C303
Selected Topics in Communication Studies

A Student may repeat COMS C302, provided that the content is different, by registering for credits under COMS C303. (3 credits)

COMMUNICATION STUDIES C304
Media and Media-Culture

This course is about media and their function, overt and covert; their effect on perception: as bases for thought, organization, technologies: as determinants of content: as accelerators of cultural changes; oral-aural, manuscript, print, electronic cultures, current cultural dynamics. The method is lecture-discussion and projects. Assignments are more or less monthly. (6 credits)

COMMUNICATION STUDIES C305
Advanced Script-Writing for Film

Prerequisite: Submission of an original short story by August 1st, and subsequent approval of instructor. A practical course in writing filmdrama: story construction and plotting, scenemaking, characterization and character development, dialogue, dramatic continuity, timing, pacing, rhythm, suspense, and creative criticality. Many of these fictional and dramatic techniques will, as the occasion arises, be applied to non-fictional scripts as well. The method is lecture, discussion, demonstration, critique. Assignments are continual and on-going. (6 credits)

COMMUNICATION STUDIES C306
Documentary Film

Prerequisite: Open to all University students with at least Second-year standing with permission of the Department. A survey of the documentary film field from 1895 until today, with an examination of major styles (Romantic, Realistic, Expressionistic, Avant-Garde, etc.) in the works of significant documentary filmmakers. The method is lecture, screenings, critique and discussion. (3 credits)

COMMUNICATION STUDIES C307
Hollywood in the Silent Era

Prerequisite: Open to all University students with at least Second-year standing. In depth study of the 60-year career of Chaplin, with special emphasis on the great early comics (Keaton, etc.); Hollywood and the birth of the movies: D. W. Griffith, von Stroheim. (3 credits)

COMMUNICATION STUDIES C308
The German Expressionist Movement

Prerequisite: Open to all University students with at least Second-year standing. Lang, Murnau, Pabst, etc., in Germany and in their later Hollywood careers. The German cinema of the '20's; the Expressionists. Integration with the socio-cultural climate of the pre-Hitler days. (3 credits)

COMMUNICATION STUDIES C309
The Revolutionary Soviet Cinema

Prerequisite: Open to all University students with at least Second-year standing. The Soviet Formalists of the '20's: Eisenstein, Pudovkin, Dovzenko. Film and revolution; Marxist aesthetics. The later evolution of the Soviet cinema. (3 credits)

COMMUNICATION STUDIES C310
The Hollywood Genres

Prerequisite: Open to all University students with at least Second-year standing. Concentration on specific genres and directors of Hollywood in its golden era ('30's, '40's). The aesthetics of art and the mass audience. (3 credits)

COMMUNICATION STUDIES C311
The Classic French Cinema

Prerequisite: Open to all University students with at least Second-year standing. Before the Nouvelle Vague, the great French cinema of Renoir, Clair, Ophuls, Cocteau. (3 credits)

COMMUNICATION STUDIES C312
La Nouvelle Vague

Prerequisite: Open to all University students with at least Second-year standing. Truffaut, Godard, Chabrol, Resnais, etc. from their New Wave days to the present. Bresson. The new cinema: consciousness, ideology, art. (3 credits)

COMMUNICATION STUDIES C313
Ingmar Bergman and the Scandinavians

Prerequisite: Open to all University Students with at least Second-year standing. In depth study of Bergman. The entire context, from the great silent period (Sjostrom, Stiller, etc.) to today (Widerberg, etc.). (3 credits)

COMMUNICATION STUDIES C314
The Italians, from Neo-Realism to Today

Prerequisite: Open to all University Students with at least Second-year standing. The neorealist movement; Rossellini, De Sica, Visconti, Fellini, Antonioni, Pasolini, Bertolucci, Wertmuller. (3 credits)

COMMUNICATION STUDIES C315
Shakespeare in the Cinema

Prerequisite: Open to all University students with at least Second-year standing. Hamlet, Macbeth, Othello, etc., as seen in the works of Welles, Olivier, the Russians. A study of the plays and their cinematic expressions: Shakespeare's world via cinema. (3 credits)

COMMUNICATION STUDIES C316
The Canadian Cinema

Prerequisite: Open to all University students with at least Second-year standing. The aesthetic, economic, sociopolitico-cultural dimensions of feature films in Canada.

Course conducted in collaboration with Canadian film directors, producers, actors, critics. (3 credits)

COMMUNICATION STUDIES C317
Film Studies

Prerequisite: Open to all University students with at least Second-year standing. A student may repeat one of the above courses (C307 to C316), provided that the content is different, by registering for credits under COMS C317. (3 credits)

The following courses, offered by the Cinema Section of the Faculty of Fine Arts, are open to Communication Studies students:
CINEMA C211, C212, C321, C322, C328, C422, C423, C426, C427. *Communication Studies students may take no more than 6 credits from this group.*

COMMUNICATION STUDIES C320
History of Communication Media Carriers I

Selected segments from the history of painting, architecture, drama, music related to the possible use in media productions and to the contemporary philosophy of communication. Readings and viewing of major styles, artworks, and authors in a self-instructional, programmed course. (3 credits)

COMMUNICATION STUDIES C321
History of Communication Media Carriers II

Selected segments from the history of photography, cinematography, radio and television, media design related to the possible use in media productions and to the contemporary philosophy of communication. Readings and viewing of major styles, artworks, and authors in a self-instructional, programmed course. (3 credits)

COMMUNICATION STUDIES C330
Advanced Script-Writing for Television

Prerequisite: Submission of an original short story by August 1st, and subsequent approval of instructor. The course provides fundamental knowledge of visual scripting, research and evaluation technique. Practical experience is given in writing, narration, dialogue, speech styles, characterization and plot development, scripting for drama, comedy, documentary, children's, variety, TV series, and women's shows. (6 credits)

COMMUNICATION STUDIES C331
Documentary Television

Prerequisite: Open to all University students with at least second year standing with permission of the Department. A survey of the documentary television field from its beginning until today with an examination of characteristic styles and forms (informative, biographical, current events, compilative, etc.) The method is lecture, video example, critique and discussions. (3 credits)

COMMUNICATION STUDIES C417
Film Ideas

Seminar using film criticism to focus on aesthetic/cultural dimension of present trend-setting films and to explore students' sensibility in context of contemporary culture. Methodology includes viewings, discussions, written critiques, critical/aesthetic readings. (3 credits)

COMMUNICATION STUDIES C435
Documentary Film and Television Genres I

Prerequisite: COMS C306, C331 or permission of the Department. Survey of genres in documentary film and television as: biographical, industrial, travelogue, nature, scientific, training, educational, children's films and TV programmes. Examples from Canada, USA, Europe. (3 credits)

COMMUNICATION STUDIES C436
Documentary Film and Television Genres II

Prerequisite: COMS C435. An in-depth study of one of the film and television genres surveyed in COMS C435. Tutorial course. (3 credits)

COMMUNICATION STUDIES C437
Seminar in Media Forecast

This course examines trends in film, sound, television and other media for future application The course includes theory of media effects. Representatives from industry and government are invited to discuss future trends in media utilization. The course demands a theoretical and practical model for original or novel use of a medium or media mix. (3 credits)

COMMUNICATION STUDIES C444
Television Aesthetics I

A seminar for advanced students which will provide an opportunity for the study of specialized aspects of television aesthetics. (3 credits)

COMMUNICATION STUDIES C445
Television Aesthetics II

A student repeating COMS C444 registers under COMS C445 for credits. (3 credits)

GROUP B

COMMUNICATION STUDIES C351
Communication Research

Prerequisite: COMS C255 and permission of the Department. An examination of the aids for information impact measurements, demonstrated on communication media carriers. Testing will be conducted on information complexes previously analyzed, e.g. photographs, advertisements, film segments, television programme sequences, exhibitions, urban environments and open country landscapes. The main emphasis of learning is on the methodology of tests, diagnosis and interpretation of results for practical media productions. A biometrical and biotelemetrical approach is used for testing. Each student will work on individual projects during the year. Tutorial course. (6 credits)
NOTE: Students who have received credit for COMS C350 may not take this course for credits.

COMMUNICATION STUDIES C360
Mass Communication

The course will examine the nature and forms of Mass Communication, the social sources and uses of Mass Communication, its psychology, audiences and effects. The

ethics of Mass Communication will also be discussed. Through guest lecturers from the various media and readings of contemporary analysis/critiques, issues such as media ownership and access, government and self-regulation, technological implications, media accountability, etc., will be raised. (3 credits)

COMMUNICATION STUDIES C361
Seminar in Propaganda

The aim of this course is to recognize the orchestration of the elements of propaganda in media and to develop the means to deal with it. Course methodology includes lecture, discussion and projects. (3 credits)

COMMUNICATION STUDIES C362
Psychology of Communication

The objectives of the course are to provide the learner with: 1) an overview of psychological processes active in the communicative act; 2) the opportunity to explore a single media area in depth, either independently or in a small group. Through a variety of formats, topic areas such as the following are explored: perception and information processing, language development, areas of para-psychology related to communication, influences on attitude/behaviour, verbal/non-verbal codes, meaning, etc. (3 credits)

COMMUNICATION STUDIES C363
Inter-Cultural Communication

The course examines the relationship between value orientations, culturally-determined behaviour, and the communication process. Theory, research and projects focus on factors influencing inter-personal and mediated communication across subcultural and cultural boundaries. (6 credits)

COMMUNICATION STUDIES C364
Communication and the Canadian North

Prerequisite: Open to all University students with at least Second-year standing. The course examines the historical context of Eskimo-White interaction in the Artic; the role media technology has played in Northern development and social change; the current research and experimental approaches to communication problems in the Canadian North. (3 credits)

COMMUNICATION STUDIES C440
Advanced Topics in Communication Studies

This course focuses on advanced topics of interest in Communication Studies. Content will depend on the theme designated by the Department. (3 credits)

COMMUNICATION STUDIES C441
Advanced Topics in Communication Studies

A student may repeat Coms C440 provided that the content is different, by registering for credits under Coms C441 (3 credits)

COMMUNICATION STUDIES C442
Advanced Topics in Communication Studies

This course focuses on advanced topics of interest in Communication Studies. Content will depend on the theme designated by the Department, (3 credits)

COMMUNICATION STUDIES C443
Advanced Topics in Communication Studies

A student may repeat COMS C442 provided that the content is different, by registering for credits under COMS C443 (3 credits)

COMMUNICATION STUDIES C465
Organizational and Political Communication

Prerequisite: Open to all University students with at least Third-year standing. After initial defining and relating of organizational and political communication, basic principles and media forms of each are isolated. Then consideration of the learning objectives of seminar participants will lead to the further exploration of such topics as: formal/informal patterns of communication, components of communication networks, internal/external communication of organizations, interrelations between media and politics, role of media in creating national unity, organized campaigning, etc. Activities include: readings and discussion; field study and analysis; research and presentation, guest lectures. (6 credits)

COMMUNICATION STUDIES C466
Media and Development

Prerequisite: Open to all University students with at least third-year standing with permission of the Department. The course considers the relationship between media, social and cultural change and economic development. Theory, research and projects focus on media's possible effect on and usefulness to underdeveloped areas. (6 credits)

COMMUNICATION STUDIES C467
Broadcasting Policy in Canada

Prerequisite: Open to all University students with at least third-year standing. This course acquaints the student with the historical development of broadcasting and broadcasting legislation in Canada. It also examines the nature of the two major broadcasting influences on the Canadian national system: Great Britain and the United States. It covers the present state of broadcasting policy in Canada, its goals and problems, and explores alternative solutions. (6 credits)

COMMUNICATION STUDIES C470
Advertising and the Consumer Society

Advertising as an economic force is examined from a mass media focus. Communication strategies are analyzed. A promotional campaign is prepared and presented as a team project. (3 credits)

COMMUNICATION STUDIES C471
Public Relations: Principles and Problems

This course considers the principles and responsibilities of Public Relations, and critically examines specific P. R. problems and the choice of media in effecting solutions. (3 credits)

GROUP C

COMMUNICATION STUDIES C374
Visual Dynamics II

Prerequisite: COMS C275 and permission of the Department. This course involves both

theory and fieldwork in photographing man-made environments, e.g. the city, using natural light. The student will acquire an understanding of the problems of distance and direction by means of lectures, critiques of fieldwork and individual consultation. (6 credits)
NOTE: Students are required to possess certain recommended equipment and to bear some of the costs of materials.

COMMUNICATION STUDIES C375
Visual Dynamics III

Prerequisite: COMS C374 and permission of the Department. A study of the development of visual artifacts and media in the search for a more and more adequate mimesis of persons, situations, and meanings. The course comprises both the practical and theoretical aspects of the visual image, historically and currently, and examines the assumptions underlying the quest for the auto-communicative image. *Lectures and Lab: average 6 hours per week. Students are required to bear some of the cost of materials.* (6 credits)

COMMUNICATION STUDIES C378
Seminar and Practicum in Sound II

This course gives the student a knowledge of the basic disciplines necessary for constructing aural message forms from the simplest to the most complex; also experience in the various technologies required to apply these aural forms to radio, film, television, etc. Students will prepare, produce, and direct, individually and in teams, a number of projects. *Lectures and Lab: average 6 hours per week. Students are required to bear some of the cost of materials.* (6 credits)

COMMUNICATION STUDIES C381
Seminar and Practicum in Film II

Prerequisite: Above-average standing in COMS C284. This course involves an examination of the communicative process through the medium of film. Areas covered include scripting, directing and shooting with both silent and sync-sound equipment. Productions are designed to test the students' theoretical knowledge and give practical experience in the craft of film-making. *Lectures and Laboratory: average 6 hours per week. Students are required to bear some of the cost of materials.* (6 credits)

COMMUNICATION STUDIES C387
Seminar and Practicum in Television II

Prerequisite COMS C284. A study of the components related to the creation of the television documentary and short feature program in terms of the theoretical possibilities inherent in the medium. Student productions in the two genres, from idea stage through completed videotape, constitute the laboratory section of the course. *Lectures and Lab: average 6 hours per week. Students are required to bear some of the cost of materials.* (6 credits)

COMMUNICATION STUDIES C475
Visual Dynamics IV

Prerequisite: COMS C375 and permission of the Department. Developing the visual imagination: conceiving and organizing ideas for expression through media such as Print, Film, Television. Each student will be asked to conceive a 'story' (an integrated narrative), and to determine its most appropriate visual presentation (emphasizing the story's significance and maintaining overall unity). Three presentational modes will be considered: a) the controlled sequence b) the randomly perceived message c) the pictorial symbol. *Lectures and Laboratory: average 6 hours per week. Students are required to bear some of the costs of materials.* (6 credits)

COMMUNICATION STUDIES C481
Seminar and Practicum in Film III

Prerequisite: Above-average standing in COMS C381 and approval of Department. An advanced course in film theory and communication. Film-making processes covered will include scripting, directing, "A and B roll" editing and shooting with crystal sync-sound equipment. *Lectures and Laboratory: average 6 hours per week. Students are required to bear some of the cost of materials.* (6 credits)

COMMUNICATION STUDIES C487
Seminar and Practicum in Television III

Prerequisite: Above-average standing in COMS C387) and approval of the Department. An advanced course in television theory and communication. Possible options, depending on the ability of the students in any one year, include the dramatic documentary and the complete adaptation for television of professional plays. *Lectures and Lab: average 6 hours per week. Students are required to bear some of the cost of materials.* (6 credits)

COMMUNICATION STUDIES C490
Communication Research Laboratory

Prerequisite: Permission of the Department. Research under tutorial direction in one of the following topics: communication programming, computer communication programming, digital and analog media analysis, biometric or biotelemetric research in film and television, basic and advanced holography, multi-media design. (6 credits)

COMMUNICATION STUDIES C496
Honours Project I

Towards the end of their second year, students enrolled in a Communication Studies programme who have demonstrated scholarly and creative ability may be selected for major research or production in a communications area of special interest. During third year, individually or in teams, the project is realized in close collaboration with faculty directors. (3 credits)
NOTE: Students who have received credit for COMS C495 may not take this course for credits.

COMMUNICATION STUDIES C497
Honours Project II

A student repeating COMS C496 registers for credits under COMS C497. (3 credits)

31.11 Economics

Chairman
B. S. SAHNI, *Associate Professor*

Professors
J. AHMAD
M. ARMSTRONG
V. CORBO
F. HAYES
M. INAGAKI

Associate Professors
S. AHSAN
S. ALVI
A. ANASTASOPOULOS
N. ISLAM
A. LALLIER
F. MULLER
M. STELCNER
A. TAKAHASHI

Assistant Professors
J. BRESLAW
P. CALLIER
G. HEWITT
I. IRVINE
A. JACKSON
Z. LIU
C. NATHAN
D. OTCHERE
D. SHAPIRO
E. SIGGEL
W. SIMS
J. B. SMITH
B. WRIGHT

Visiting Scholars
F. BOURGUIGNON
S. MARGLIN

Lecturer
R. FORD

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Groups of Economics Courses Classified According to Subject

Group 0

ECONOMICS C200
Introductory Economics

ECONOMICS C201
Introductory Microeconomics

ECONOMICS C203
Introductory Macroeconomics

ECONOMICS C301
Intermediate Microeconomics I

ECONOMICS C302
Intermediate Microeconomics II

ECONOMICS C303
Intermediate Macroeconomics I

ECONOMICS C304
Intermediate Macroeconomics II

ECONOMICS C401
Advanced Microeconomics

ECONOMICS C403
Advanced Macroeconomics

ECONOMICS C405
Welfare Theory

ECONOMICS C408
History of Economic Thought

Group 1

ECONOMICS C311
Economic Development I

ECONOMICS C312
Economic Development II

ECONOMICS C315
The Economic Development of Quebec

ECONOMICS C316
Canadian Economic Issues I

ECONOMICS C317
Canadian Economic Issues II

ECONOMICS C411
Quantitative Development I

ECONOMICS C412
Quantitative Development II

ECONOMICS C413
Economic Growth and Fluctuations

Group 2

ECONOMICS C221
Statistical Methods I

ECONOMICS C222
Statistical Methods II

ECONOMICS C323
Use of Economic Data

ECONOMICS C325
Mathematics for Economics I

ECONOMICS C326
Mathematics for Economics II

ECONOMICS C421
Econometrics I

ECONOMICS C422
Econometrics II

ECONOMICS C425
Mathematical Economics I

ECONOMICS C426
Mathematical Economics II

ECONOMICS C428
Optimization Techniques

Group 3

ECONOMICS C331
Money and Banking

ECONOMICS C335
Economics of the Public Sector I

ECONOMICS C336
Economics of the Public Sector II

ECONOMICS C432
Advanced Monetary Theory

ECONOMICS C435
Advanced Public Finance

Group 4
ECONOMICS C341
International Economic Relations
ECONOMICS C442
International Economics I
ECONOMICS C443
International Economics II

Group 5
ECONOMICS C250
Introduction to Economic History
ECONOMICS C351
Economic History of Canada
ECONOMICS C352
Economic History of U.S.
ECONOMICS C353
Economic History of Europe
ECONOMICS C450
Advanced Economic History

Group 6
ECONOMICS C361
Industrial Organization I
ECONOMICS C461
Industrial Organization II
ECONOMICS C462
The Corporate Economy

Group 7
ECONOMICS C370
Comparative Economic Systems
ECONOMICS C374
Theory and Practice of Cooperation
ECONOMICS C375
The Soviet Economy
ECONOMICS C377
The Chinese Economy
ECONOMICS C473
Economics of Socialism
ECONOMICS C476
Marxist Economics

Group 8
ECONOMICS C381
Labour Economics I
ECONOMICS C382
Industrial Relations I
ECONOMICS C383
Industrial Relations II
ECONOMICS C386
Economics of Human Resources
ECONOMICS C387
Labour Law
ECONOMICS C481
Labour Economics II

Group 9
ECONOMICS C391
Economics of the Environment
ECONOMICS C392
Urban Economics
ECONOMICS C396
Natural Resource Economics
ECONOMICS C397
Economics of Discrimination
ECONOMICS C398
Study in a Special Subject I
ECONOMICS C399
Study in a Special Subject II
ECONOMICS C490
Economics of Social Welfare
ECONOMICS C493
Regional Economics
ECONOMICS C495
Economics of Transportation and Communication
ECONOMICS C498
Advanced Study in a Special Subject I
ECONOMICS C499
Advanced Study in a Special Subject II

Advanced Core

All Honours and Specialization students are required to select 18 credits from 'Advanced Core' courses.

ECONOMICS C401[3]
Advanced Microeconomic Theory
ECONOMICS C403[3]
Advanced Macroeconomic Theory
ECONOMICS C408[6]
History of Economic Thought
ECONOMICS C421[3]
Econometrics I
ECONOMICS C422[3]
Econometrics II
ECONOMICS C425[3]
Mathematical Economics I
ECONOMICS C426[3]
Mathematical Economics II
ECONOMICS C432[3]
Advanced Monetary Theory
ECONOMICS C435[3]
Advanced Public Finance
ECONOMICS C442[3]
International Economics I
ECONOMICS C443[3]
International Economics II

60 BA Honours in Economics

6 * ECON C201[3], C203[3]
12 ECON C301[3], C302[3], C303[3], C304[3]
6 ECON C325[3], C326[3]
6 **ECON C221[3] and ECON C222[3] or QUAN C243[3] and C244[3]
18 Chosen from ECON C401[3], C403[3], C408[6], C421[3], C422[3], C425[3], C426[3], C432[3], C435[3], C442[3], C443[3] (Advanced Core)
12 ECON elective credits

**Students exempted from ECON C201 and/or C203 are required to replace these courses with ECON electives.*

***Any equivalent 6 credits satisfy this component of the programme. See note after ECON C222.*

60 BA Specialization in Economics

6 *ECON C201[3], C203[3]
12 ECON C301[3], C302[3], C303[3], C304[3]
6 ECON C325[3] and C326[3]
6 **ECON C221[3] and C222[3] or QUAN C243[3] and C244[3]
18 Chosen from 400 level ECON courses
12 ECON elective credits

**Students exempted from ECON C201 and/or C203 are required to replace these courses with ECON electives.*

***Any equivalent 6 credits satisfy this component of the programme. See note after ECON C222.*

42 BA Major in Economics

6 *ECON C201[3], C203[3]
6 **ECON C221[3] and C222[3] or QUAN C243[3] and C244[3]
6 ECON C301[3] and C302[3]
6 ECON C303[3] and C304[3]
6 Chosen from 400 level ECON courses
12 ECON elective credits

Students exempted from ECON C201 and/or C203 are required to replace these courses with Economics electives.

***Any equivalent 6 credits satisfy this component of the programme. See Note after ECON C222.*

30 Minor in Economics

6 *ECON C201[3], C203[3]
6 ECON C301[3], C302[3]
6 ECON C303[3], C304[3]
12 ECON elective credits

Students exempted from ECON C201 and/or C203 are required to replace these courses with Economics electives.

Students seeking admission to the Honours Programme on or after June 1, 1977, will be bound by the Honours requirements outlined § 16.2.4 of this Calendar. Students who already had Honours status by June 1, 1977, will continue to be governed by the requirements which applied at the date of their admission to the Honours Programme.

The courses in Economics listed below are acceptable as science credits in the Bachelor of Science degree. Course descriptions can be found in Section 31.11.

ECONOMICS C222[3], C325[3], C326[3], C421[3], C422[3], C425[3], C426[3]

ECONOMICS C200
Introductory Economics

This course is primarily for students not majoring in Economics. Its content is essentially the same as that of Economics C201 and C203. However, there is greater emphasis on Canadian economic institutions and government policies. It is open to all students except Commerce and does not count as credit towards any Economics programme. (6 credits)

ECONOMICS C201
Introduction to Microeconomics

Introduction to the functioning of the market system; concepts of supply and demand, the role of prices in resource allocation; production decisions by firms. Analysis of differences between competition and monopoly and the implications for economic efficiency; theories of labour markets and wage determination. (3 credits)

ECONOMICS C203
Introduction to Macroeconomics

An introductory analysis of aggregate economic activity. The focus is on the principles of determination of the level of employment, national income, real output, inflation, and international balance of payments. The course also analyses the principles which govern the trade relations among countries. These topics are integrated by a discussion of government monetary and fiscal policies to stabilize economic activity. (3 credits)

ECONOMICS C221
Statistical Methods I

Prerequisite: CEGEP Mathematics 201 or equivalent. Elementary probability, permutations and combinations, binomial and normal distribution. Analysis and organization of statistical data. Tests of hypotheses. Confidence limits. Introduction into linear regression and correlation. (3 credits)
NOTE: Credits will be given for only one 6-credit course or two 3 credit courses from Economics C221 and C222, Mathematics C207, Geography C362 and C363, Mathematics C241, Quantitative Methods C243 and C244, Sociology C210, Psychology C317 and C318.

ECONOMICS C222
Statistical Methods II

Prerequisite: Economics C221 or equivalent. The course is an introduction to the application of statistical techniques to economic data. Topics discussed will include, among others, time series, statistical inference, analysis of variance, correlation and regression. (3 credits)
NOTE: Credits will be given for only one 6-credit course or two 3-credit courses from Economics C221 and C222, Mathematics C207, Geography C362 and C363, Mathematics C241, Quantitative Methods C243 and C244, Sociology C210, Psychology C317 and C318.

ECONOMICS C250
Introduction to Economic History

A study of the economic development of western societies. Particular attention will be paid to Europe during the period from the sixteenth century to the present day. The aim of the course is to provide an understanding of the interconnections between social, economic and political change. (6 credits)

ECONOMICS C301
Intermediate Microeconomic Theory I

Prerequisite: Economics C201 and C203. Theory and measurement of demand, theory of consumer behaviour, production, theory of the firm, and cost analysis. (3 credits)

ECONOMICS C302
Intermediate Microeconomic Theory II

Prerequisite: Economics C301. Market structure (perfect competition, monopoly, oligopoly) industrial concentration, factor markets, income distribution, economic efficiency, general equilibrium, welfare economics. (3 credits)

ECONOMICS C303
Intermediate Macroeconomic Theory I

Prerequisite: Economics C201 and C203. An analysis of the major areas of aggregate economics. Topics will include the definition

and measurement of regional income and the theory of income determination in the classical and in the Keynesian systems. (3 credits)

ECONOMICS C304
Intermediate Macroeconomic Theory II

Prerequisite: Economics C303. Topics will include review of the complete Keynesian system, business cycles, economic fluctuations in Canada, inflation and unemployment theories, macroeconomic policies, economic growth and their theory and application to Canada. (3 credits)

ECONOMICS C311
Economic Development I

Prerequisite: Economics C201 and C203. The course investigates comparative economic development with special attention to problems of capital formation, population growth, quality of the labour force and social and cultural attitudes towards economic modernization. Theories of economic development are evaluated in the context of the realities of historical patterns and the varying degrees of ability to achieve modernization. (3 credits)

ECONOMICS C312
Economic Development II

Prerequisite: Economics C311. The meaning and concept of economic planning, methodology and strategy of planning, input-output and sector analysis, techniques of planning, investment criteria and priorities, study and appraisal of economic plans of a few countries. (3 credits)

ECONOMICS C315
The Economic Development of Quebec

Prerequisite: Economics C201 and C203. This course will review past and present trends in the economic development of Québec. Emphasis will be placed on the economic growth of Québec since the Second World War. Attention will be given to the regional aspects of Québec's growth problems. (3 credits)

ECONOMICS C316
Canadian Economic Issues I

Prerequisite: Economics C201 and C203. This course will be devoted to an analysis of some economic issues facing Canada. For example: employment and unemployment, inflation, economic growth and potential, income distribution, social security policies, monetary and fiscal policies. (3 credits)

ECONOMICS C317
Canadian Economic Issues II

Prerequisite: Economics C201 and C203. This course is similar to Economics C316, but will cover a different group of topics. For example: foreign ownership and control, regional development problems, monopoly and competition, government regulation of business, agricultural policy, trade policy. (3 credits)

ECONOMICS C323
The Use of Economic Data

Prerequisite: Economics C201 and C203. Concepts of economic accounting and related measurement techniques, with special reference to the procedures used in Canada and in international economic institutions like the U.N., I.M.F. and O.E.C.D. The topics include: national accounts, input-output tables, flow-of-funds accounts, national balance sheets, international and interregional comparison of economic data, choice of index. (3 credits)

ECONOMICS C325
Mathematics for Economists I

Prerequisite: Economics C201, C203; Mathematics C201 or equivalent. This course introduces the student to differential and integral calculus and to their applications in economic analysis. Topics covered include set theory, the concept of limits and rules for differentiation and integration. It also deals with the relevance of these concepts and techniques to economic problems such as maximization, equilibrium analysis and dynamic adjustments. (3 credits)

ECONOMICS C326
Mathematics for Economists II

Prerequisite: Economics C325. The main emphasis is on the study of linear algebra and its application to the solution of economic models consisting of a system of linear simultaneous equations. Topics covered include: matrices and vectors; basic properties of determinants and their use in solving equations pertaining to economic problems such as linear programming and constrained optimization. (3 credits)
NOTE: Students who have received credit for Quantitative Methods C313 may not take this course for credit.

ECONOMICS C331
Money and Banking

Prerequisite: Economics C201 and C203. Overview of a monetary economy: nature, forms and the economic role of money. Monetary standards: markets, prices and the value of money; the payments system; financial markets. Determinants of size and distribution of wealth portfolios. Supply of money: measure, composition and size determination. The economic role of commercial banks and non-bank financial intermediaries. Central banking and monetary policy. The international monetary system. (Topics will be covered within the Canadian banking institutional framework). (3 credits)

ECONOMICS C335
Economics of the Public Sector I

Prerequisite: Economics C201 and C203. This course examines government fiscal activity within the context of a free market system. Rationale for public sector activity is reviewed in terms of economic efficiency conditions and the market failures. Among the topics covered in the course are growth of public spending, the concept of public good externalities, collective decision-making process, pure theory of public expenditures, local expenditures analysis, and efficiency in public spending with special reference to Québec and Canada. (3 credits)

ECONOMICS C336
Economics of the Public Sector II

Prerequisite: Economics C335. The principal purpose of this course is to examine and evaluate the important elements of the Canadian fiscal structure emphasizing taxation and the financing of public expenditures. Among others, issues in taxation of income, both at the individual and corporate levels, excise and sales taxation, taxation of capital

gains and wealth, intergovernmental fiscal relations and tax reform will be taken up. (3 credits)

ECONOMICS C341
International Economic Relations

Prerequisite: Economics C201 and C203. This course focuses on the discussion and analysis of the major forms of economic relations among nations, viz., international trade and international capital movements. Emphasis is placed on policies and institutions for the smooth functioning of the international economy, although some theoretical constructs are also introduced. Topics covered include international trade, protection, balance of payments, economic integration and international monetary system. (3 credits)

ECONOMICS C351
Economic History of Canada

Prerequisite: Economics C201 and C203. This course is designed to introduce the student to Canadian economic development from the early period of settlement to the present day. Emphasis will be placed on the economic history of Canada since Confederation. (6 credits)

ECONOMICS C352
Economic History of the U.S.A.

Prerequisite: Economics C201 and C203. American economic history will be presented from the viewpoint of the "new" economic history. This is a topical approach in which formal economics is used to evaluate traditional historical material. Among the topics which will be covered are: the economic consequences of slavery, the American business cycle, the development of American central banking, the merger movements, the causes of the American "take-off", and the economic causes and consequences of the major wars. (6 credits)

ECONOMICS C353
Economic History of Europe

Prerequisite: Economics C201 and C203. The course will explore the causes and consequences of the British Industrial Revolution and its diffusion to the Continent in terms of differential national growth patterns and social problems associated with economic change. It will include an analysis of free trade, economic nationalism, the new imperialism, the importance of the crisis of 1929 in terms of economic organization, thought and policy. Post World War II reorganization, in terms of planning the welfare state, and economic integration. (6 credits)

ECONOMICS C361
Industrial Organization I

Prerequisite: Economics C201 and 203. This course develops the relationship of the firm to various forms of market structure. The course will focus on the objectives of the corporation, corporate interdependence and the government control of industry. A study of policy matters will centre on anti-trust and corporate regulation, with respect to both the legislative and economic aspects. (3 credits)

ECONOMICS C370
Comparative Economic Systems

Prerequisite: Economics C201 and C203. A comparative study of contemporary economic systems. While mainly concerned with the institutional features of contemporary free market economics, the course will also deal with their counterpart, the systems of a command economy and a Socialist market economy. Of primary interest will be the institutions, mechanisms and policies which govern allocation, efficiency, growth and distribution of income, with emphasis on the historical background of the institutions and the social, political and ideological influences which continue to shape them. (6 credits)

ECONOMICS C374
Theory and Practice of Cooperation

Prerequisite: Economics C201 and C203. This course will deal with the effect of cooperatives on economic and social development with emphasis on Québec and Canada. Among the topics discussed are the origins and development of the cooperative economy, differences between cooperative, capitalist and communist economic systems; economic, social, educational and moral transformations taking place under cooperative influence, and the role of cooperation on the international political scene. (3 credits)

ECONOMICS C375
The Soviet Economy

Prerequisite: Economics C201 and C203. The evolution of the Soviet economic system and the policy measures adopted to deal with the problems of establishing and consolidating a socialist state. Special attention is given to Lenin's role in the early phase of the Soviet system and early economic measures such as the collectivization of farms. Other topics covered are: the nature of economic planning and progress under Stalin, and the important recent reforms and modifications of the Soviet system under the impact of Liberman's proposals. (3 credits)

ECONOMICS C377
The Chinese Economy

Prerequisite: Economics C201 and C203. This course is devoted to an analysis of Chinese economic development since 1949. Topics include: performance and efficiency, strategy for development, agricultural organization, the contribution of policy to economic growth, the industrial sector, control and allocation of resources, national economic planning. (3 credits)

ECONOMICS C381
Labour Economics I

Prerequisite: Economics C201 and C203. This course deals with labour force concepts and analysis; labour markets and other aspects of demand for and supply of labour; population, immigration and participation rates; theory of wages; structure and determination of wages; minimum wage and manpower policies. Emphasis will be on the Canadian institutions. (3 credits)

ECONOMICS C382
Industrial Relations I

Prerequisite: Economics C201 and C203. A study of the general and practical problems that arise in the labour field, such as collective bargaining, the legal framework for the settlement of industrial disputes, the weapons of industrial conflict; the labour movement; contemporary labour issues such as automation, cost-push inflation and structural employment. (3 credits)

ECONOMICS C383
Industrial Relations II

Prerequisite: Economics C382. Topics in industrial relations with particular emphasis on developments in Canada. (3 credits)

ECONOMICS C386
Economics of Human Resources

Prerequisite: Economics C201 and C203. A study of recent contributions by economists to the understanding and solution of social problems which society currently faces in the areas of crime, health, education and welfare. In addition, specific federal and provincial governmental policies in these areas are analyzed with the standard tools of economics. (3 credits)

ECONOMICS C387
Labour Law

Prerequisites: Economics C201 and C203. The development of the trade union movement and early labour legislation in the U.S.A. and Canada; collective bargaining; labour law in Canada and Québec today with emphasis on the Industrial Relations and Disputes Investigations Act (Canada), the Québec Labour Code and related statutes. An in-depth study of employer's free speech; evocation in matters of arbitration awards; injunctions; successor rights. Practice and procedure before the courts and labour relations boards and commissions. (6 credits)

ECONOMICS C391
Economics of the Environment

Prerequisite: Economics C201 and C203. The subject of this course is environmental quality. It proceeds through an analysis of the relationships between the natural environment, economics and institutions. The objective is to depict the problem of environmental quality as an economic problem whose solution demands major changes in economic, political and legal institutions. Attention is also given to policies of collective environmental actions in which the effective management of common property resources will be discussed. The course concludes with a discussion of some broader issues, such as the consistency of improved environmental quality with continued economic and population growth. (3 credits)

ECONOMICS C392
Urban Economics

Prerequisite: Economics C201 and C203. This course will focus on the basic issues of economic growth and stagnation, urban land use, the problems of the urban public economy and special urban problems such as transportation, congestion, poverty, housing and urban renewal and zoning. (3 credits)

ECONOMICS C396
Natural Resource Economics

Prerequisite: Economics C201 and C203. This course focuses on the problems of the finiteness of the natural resources base in Canada and in the world, and on an analysis of the demand for and supply of natural resources and energy. The course also discusses the economic aspects of a selected group of conservation measures (financial incentives, real-location of property rights, regulation). (3 credits)

ECONOMICS C397
Economics of Discrimination

Prerequisite: Economics C201 and C203. The purpose of this course is to examine some economic issues of discrimination with particular reference to women in a Canadian context. Among the topics so examined are: techniques for measuring discrimination and poverty, review of empirical studies, traditional and radical approaches to the study of discrimination and policies to combat discrimination and poverty. (3 credits)

ECONOMICS C398
Study in a Special Subject I

Prerequisite: Economics C201 and C203. This course is designed primarily for honours, specialization, and major students. Its purpose is to provide an opportunity for advanced students to intensify their study beyond the traditional areas of specialization already represented by the cirriculum. The selected subject will depend upon the special interest of the instructor offering the course in any given year. (3 credits)

ECONOMICS C399
Study in a Special Subject II

Prerequisite: Economics C201 and C203. A student repeating Economics C398 registers for credits under Economics C399. (3 credits)

ECONOMICS C401
Advanced Microeconomic Theory

Prerequisite: Economics C301, C302, C325 and C326. Selected topics in microeconomic analysis including: methodology, general equilibrium analysis, welfare economics; theory of the firm, factor pricing and income distribution capital theory. Primarily for majors, specialization and honours students. (3 credits)

ECONOMICS C403
Advanced Macroeconomic Theory

Prerequisite: Economics C303, C304; C325 and C326. Selected topics in macroeconomic analysis including construction of models of the economy encompassing the labour, product and financial markets; the role of monetary and fiscal policies; classical, Keynesian and post-Keynesian models. Primarily for majors, specialization and honours students. (3 credits)

ECONOMICS C405
Welfare Theory

Prerequisite: Economics C301, C302; C303 and C304. This is an advanced course, intended primarily for honours students. The course will be devoted to an examination of selected topics in contemporary welfare economics and its applications. (3 credits)

ECONOMICS C408
History of Economic Thought

Prerequisite: Economics C301, C302; C303 and C304. This course traces the development of economic analysis from the time of the Scholastics to modern times. It also includes a description of the prevailing economic, social and cultural environment in which economists have written. Primarily for majors, honours and specialization students. (6 credits)

ECONOMICS C411
Quantitative Development I

Prerequisite: Economics C301, C302; C325 and C326. Methods of national accounting and input-output analysis for under-developed countries. Methods of comparing standards of living. Patterns of economic development. Appraisal of models constructed on the premises of modern theories of economic development. (3 credits)

ECONOMICS C412
Quantitative Development II

Prerequisite: Economics C411. The model of economic policy. Planning in stages. The model of linear activity analysis and efficient decentralization of economic decisions. Planning of efficient accumulation of capital. Individual project evaluation. Foreign aid and debt service models. Projection of manpower requirements. Evaluation of empirical applications of optimum planning to underdeveloped economies. (3 credits)

ECONOMICS C413
Economic Growth and Fluctuations

Prerequisite: Economics C303 and C304. A review of some theories of causes of economic fluctuations. Discussion of the economic climate and of stablization policies. (3 credits)

ECONOMICS C421
Econometrics I

Prerequisite: Economics C221, C222, C325 and C326. This course develops the simple and multiple classical regression models. The problems of misspecified structures, multicollinearity and forecasting will also be presented. (3 credits)

ECONOMICS C422
Econometrics II

Prerequisite: Economics C421. This course is a continuation of Economics C421. It deals with the problems of random error correlation, stochastic regressors and the stimulation and the estimation of multiple equation models. (3 credits)

ECONOMICS C425
Mathematical Economics I

Prerequisite: Economics C301, C302, C303, C304, C325 and C326. A set-theoretic approach to the theory of demand and production. Special topics in the application of static optimization. (3 credits)

ECONOMICS C426
Mathematical Economics II

Prerequisite: Economics C425. Optimization over time: theory and applications to problems of consumption and investment planning, growth and capital accumulation. Differential equations. (3 credits)

ECONOMICS C428
Optimization Techniques

Prerequisite: Economics C301, C302; C303, C304; C325, C326. This is an advanced course for Honours students and for Specialization and Major students with the consent of the Department. Topics include linear programming and input-output analysis; basic concepts and solutions of linear programming, its application to optimum resources allocation; exposition of basic inter-industry theory within the framework of input-output techniques; its applications to structural analysis. (3 credits)
NOTE: Only 3 credits will be awarded from Economics C428 and Quantitative Methods C416.

ECONOMICS C432
Advanced Monetary Theory

Prerequisite: Economics C301, C302; C303, C304 or permission of the Department. The nature of the monetarist-Keynesian controversy and critical appraisal of the IS-LM-AS model. Special topics; theory and evidence of term structure of interest rates, post-Keynesian demand for and supply of money in aggregative and dis-aggregative economic models. Theory of macro-economic policy. Transmission mechanisms, policy coordination, lags, international constraints and other problems. (3 credits)

ECONOMICS C435
Advanced Public Finance

Prerequisite: Economics C301, C302; C303, C304; C335, C336. In this course several key areas in Public Finance will be dealt with in depth. Topics covered will be selected from the following: public goods and externalities, cost benefit analysis, pricing policy of public enterprises, structure of commodity taxation, structure of income taxation, issues in tax reform and intergovernmental fiscal relations. (3 credits)

ECONOMICS C442
International Economics I

Prerequisite: Economics C301 and C302. The basis of international trade, gains from trade, factor-price equalization, the tariff, Canadian commerical policy, trade and development, economic integration. (3 credits)

ECONOMICS C443
International Economics II

Prerequisite: Economics C303 and C304. International monetary economics, foreign exchange markets, adjustment mechanisms, capital flows, balance of payments and domestic policy goals, international liquidity. (3 credits)

ECONOMICS C450
Advanced Economic History

Prerequisite: Economics C221, C222; C301, C302; C303 and C304. Advanced topics in economic history with emphasis on the application of economic theory to specific historical questions. (3 credits)

ECONOMICS C461
Industrial Organization II

Prerequisite: Economics C361 or C301 and C302. This course analyses the structure, conduct and performance of Canadian and U.S. industries. Topics include the determinants of industrial structure such as economies of scale and barriers to entry, measures of conduct and performance, technological change, advertising, mergers, integration and public policy. (3 credits)

ECONOMICS C462
The Corporate Economy

Prerequisite: Economics C221, C222; C301 or C361; and C303 or permission of the Department. This course will examine the

nature of the large firm, its behaviour and its impact on the national and international economy. Topics will include: the emergence and historical development of the corporate firm; the separation of ownership from control; the large firm in Canada; theories of the large firm; mergers; macro-economic effects of large firms (administered pricing-inflation); the multinational corporation (theories, evidence, and effects). (3 credits)

ECONOMICS C473
Economics of Socialism

Prerequisite: Economics C301 and C302. This course analyses the theoretical aspects of various types of socialist economies: market, centrally planned, and worker-managed. Definitions and models of the various forms will be developed and compared to a capitalist model and to existing socialist economies such as those of Cuba, China, Yugoslavia and the U.S.S.R. (3 credits)

ECONOMICS 476
Marxist Economics

Prerequisite: Economics C301, C302, C303 and C304 or Economics C370, or permission of the Department. A general survey of Marxist theory, including historical and dialectical materialism. Marx's microeconomics: labour theory of value and its classical predecessors; theory of exploitation and the Iron Law of Wages; transformation problem and price theory. Marx's macroeconomics: business cycles and the theory of capitalist development; crises and the breakdown of capitalism. Contemporary Marxism and the question of the withering away of the state. (3 credits)

ECONOMICS C481
Labour Economics II

Prerequisite: Economics C301 and C302; C303 and C304; C381. This course examines the determination of wages and employment, both at the level of the firm as well as of the economy as a whole. Analyses are made of the demand for labour by individual firms. Occupational, regional and inter-industry wage differentials, effect of wage changes on employment. Impact of unions on wages and employment and labour mobility. Aggregate questions examined include current problems of structural and cyclical unemployment; price inflation, and the role of monetary and fiscal policies in attaining full employment and controlling inflationary pressures. These topics are analysed in the context of the Canadian economy. (3 credits)

ECONOMICS C490
Economics of Social Welfare

Prerequisite: Economics C301 and C302; Economics C303 and C304. This course will be devoted to an examination of the economic aspects of social welfare issues in Canada. Topics will include: employment and unemployment; manpower problems and policies, inequality, poverty, social insurance and social assistance; investment in man, especially education and health; urban and regional development; environmental economics; federal, provincial, and municipal policies. (6 credits)

ECONOMICS C493
Regional Economics

Prerequisite: Economics C301, C302; C303, C304. This course introduces the student to the methods and techniques of regional economic analysis and their application to the problems of regional economies within Canada. Among the microeconomic topics covered are the location behaviour of firms and households and the factors determining the allocation of land among alternative competing uses. Macroeconomic topics include the measurement and analysis of regional income and growth levels, cyclical changes in those levels, and interregional differences in growth rates. Policy problems pertinent to Canadian regions are stressed throughout the course. (3 credits)

ECONOMICS C495
Economics of Transportation and Communications

Prerequisite: Economics C301, C302. Congestion problems and solutions, pricing, costs, demand and regulation in transportation. Some applications to communications. (3 credits)

ECONOMICS C498
Study in a Special Subject III

Prerequisite: Permission of the Department. This course is designed primarily for honours, Specialization and major students. Its purpose is to provide an opportunity for students to intensify their study beyond the traditional areas of specialization already represented in the curriculum. The selected subject will vary with the special interest of the instructor offering the course in any given year. (3 credits)

ECONOMICS C499
Study in a Special Subject IV

Prerequisite: Permission of the Department. A student repeating Economics C498 registers for credits under Economics C499. (3 credits)

31.12 Education

Chairman
A. HAMALIAN, *Assistant Professor*

Professors
J. K. BHATNAGAR
H. ENTWISTLE
P. D. MITCHELL

Associate Professors
G. BOYD
C. O. COLDEVIN
M. FARRELL
F. P. FRIEDMAN

Associate Professor of Education and Psychology
D. WHITE

Assistant Professors
L. J. BARON
J. BARAKETT-BRAND
R. M. BERNARD
D. J. DICKS
G. FIDLER
E. G. JACOBS
W. KNITTER
C. LAVERS
C. PETERSEN
R. F. SCHMID

Lecturers
M. MANSON
C. STAMM
F. STEVENS

Visiting Lecturer
M. KAMBERK

31.12.1 PROGRAMMES

(For Adult Education see § 31.12.2)

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

72 BA Honours in Education and Philosophy (Sir George Williams)

Year I
9 EDUC C210[6], C230[3]
6 Chosen from PHIL C201[3] and C223[3], C202[6],
6 Chosen from PHIL C226[3] and C228[3], C310[6]
Year II
6 EDUC C430[6]
6 Chosen from PHIL C348[6], C350[6], C352[6], C460[6]
6 Chosen from EDUC C421[6], C426[3], C427[3], C441[6]
6 Chosen from PHIL C241[6], C338[3], C353[3], C456[6]
Year III
6 EDUC C431[6]
3-6 Chosen from EDUC C432[3], C433[3], C434[3], C435[3] in consultation with the Education Department
6 Chosen from PHIL C313[6], C412[6], C417[6], C469[6]
6 PHIL elective credits at 400 level
Years II or III
3-6 Chosen from EDUC C413[3], C414[3], C416[3], C417[3]

30 Minor in Education (Sir George Williams)

30 Chosen from EDUC C201[6], C210[6], C230[3], C305[3], C306[3], C317[3], C321[3], C390[3], C392[3], C405[3], C406[3], C407[3], C413[3], C414[3], C415[3], C416[3], C417[3], C421[6], C426[3], C427[3], C430[6], C441[6], C442[3], C452[3], C497[3], C498[3]

75 BA Specialization in Early Childhood Education (Sir George Williams)

54 EDUC C210[6], C211[3], C260[3], C262[3], C270[3], C271[3], C370[6], C380[3], C381[3], C382[3], C445[3], C461[6], C469[3], C470[6]
9 ARTE C201[3], DINE C201[3], MINE C301[3]
6 Chosen from EDUC C413[3], C414[3], C416[3], C417[3] in consultation with the Department
6 Chosen from EDUC C421[6], C426[3], C427[3], C430[6], C441[6] in consultation with the Department

NOTE: The BA Specialization in Early Childhood Education leads to a Teaching Permit of the Province of Quebec, Ministry of Education, for prekindergarten, kindergarten and Grades 1-3.

48 BA Major in Child Studies (Sir George Williams)

21 EDUC C211[3], C260[3], C262[3], C370[6], C461[6]
9 Chosen from EDUC C317[3], C413[3], C414[3], C416[3], C417[3] in consultation with Department
6 Chosen from EDUC C421[6], C426[3], C427[3], C430[6], C441[6] in consultation with the Department
3 Chosen from EDUC C380[3], C381[3], C382[3], C469[3]
3 Chosen from PSYC S212[3], S213[3], S214[3], S215[3], S302[3], S303[3], S304[3], S305[3], S308[3] in consultation with Department
6-12 Chosen from ARTE C201[3], C202[3], DINE C201[3], C202[3] MINE C301[3], BIOP C413[3], C415[3], ENGL C237[6], C238[3], C239[3], HEAL C208[3], C251[3], SOCI S440[6], S442[6] at least 2 different disciplines must be selected. Students who elect to take SOCI S440[6], or S442[6] or ENGL C237[6] must select an additional 3-6 credits in a different discipline from the courses listed above in consultation with the Department.

Certificate In Education (Sir George Williams)

The Department of Education offers a 30 credit programme leading to the Concordia University Certificate in Education and certification from the Provincial Department of Education.

NOTE: This programme is restricted to individuals at present employed in a recognized educational institution in Quebec and holding a provisional teaching authorization.

Admission Requirements

1. Evidence of full-time employment with a recognized educational institution in Quebec.
2. Possession of a Quebec Provisional Teaching Authorization.

Courses

EDUC C201[6]
EDUC C210[6]
either EDUC C480[3], C481[3] or an equivalent course in teaching methodology
EDUC C445[3]
EDUC C471[6]
6 additional undergraduate credits in Education chosen in consultation with the Director of the Programme.

Transfer

Students with a maximum of 15 credits from other recognized institutions may be allowed to transfer into the programme.

NOTE:

1. *The student must meet the minimum scholarity requirements set by the provincial government before being recommended for certification.*
2. *This programme is not open to teachers of vocational subjects.*

For programmes which may be of particular interest to teachers, see § 21.

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

EDUCATION C201
The Nature and Function of Teaching

An introduction to the purpose, theories and methods of teaching. (6 credits) *NOTE A/See § 200.1*

EDUCATION C210
Psychology of Education

This course will introduce the student to a broad range of content in educational psychology, including its scope and methods, learning motivation, growth and development, adjustment, individual differences, guidance, and concept of self. (6 credits) *NOTE A/See § 200.1*

EDUCATION C211
Child Growth and Development

Prerequisite: Enrolment in Early Childhood Education Specialization or Major in Child Studies or with permission of the Department. Students will study the physical, cognitive, affective and social development of the young child. Genetic and environmental factors, which influence development, will be examined. The implications of developmental needs in terms of planning environments will be covered. (3 credits)

EDUCATION C230
Introduction to Philosophy of Education

This course will introduce the student to the content and form of several major educational theories, and to conceptual and logical procedures of philosophizing about education with particular reference to teaching and learning. (3 credits) *NOTE A/See § 200.1*

EDUCATION C260
A Survey of Early Childhood Education

Prerequisite: Enrolment in Early Childhood Education Specialization or Major in Child Studies or permission of the Department. This course provides an introduction to the field of early childhood education. The history and philosophy of pre-schools, day care and the nursery school movement will be presented. The influences of major writers such as Rousseau, Froebel, Pestalozzi, Itard, Seguin, Montessori and Dewey will be examined. Comparative pre-school educational practices in other countries will be explored. (3 credits)

EDUCATION C262
The Family and the Child

Prerequisite: Enrolment in Early Childhood Education Specialization or Major in Child Studies or permission of the Department. Students will study various dimensions of the child-parent-school interaction process. Parental understanding of and empathy for the child will be discussed. Family attitudes, feelings, values, expectations and their impact on the child will be examined. Changes in familial living styles resulting from societal changes will be explored. Students will study and practice methods to facilitate and improve school-parent communications. (3 credits)

EDUCATION C270
Practicum I: Curriculum, Classroom Management and Micro-Teaching

Prerequisite: Enrolment in Early Childhood Education Specialization. Students will study curriculum development and classroom management at the pre-school level. Teaching skills will be modelled and practised in microteaching sessions. Students will plan and develop activities, lessons and units, which they will implement in the microteaching sessions. Videotapes of performance will be reviewed and discussed. (3 credits)

EDUCATION C271
Practicum II: Pre-School Field Experiences

Prerequisite: Enrolment in Early Childhood Education Specialization. This course requires students to spend one day a week for

one semester in the Concordia Child Care Centre or other pre-school setting. Students will be required to observe, record and assess the behaviour of young children, to study programme organization and general classroom functioning. Each student will develop a curriculum unit which will be taught. Students must attend a weekly seminar given by the Director, Concordia Child Care Centre. (3 credits)

EDUCATION C305
Technology for Educational Change I

This course introduces the student to a wide range of ideas and practical skills in Educational Technology, a field which encompasses mass communications, computer-based systems, audio-visual instrumentation, simulation and gaming, systems analysis and instructional design. A modular approach is adopted; each module covers, in a six-week period, a particular area of thought in Educational Technology. Two modules are offered. The first deals from a theoretical viewpoint with human communication processes (semiotics, gesture, sociolinguistics, etc.). The second module focuses on specialised applications of computer technology in education — computer assisted learning (CAL) and computer managed instruction (CMI). The course will require laboratory work outside class. (3 credits) *NOTE A/See § 200.1*

EDUCATION C306
Technology for Educational Change II

Like Education C305 this course offers two modules focusing on particular aspects of Educational Technology. Each module is covered in six weeks. The first module deals with small-studio television production, tutorials in production skills culminating in script-writing and group production of an educational TV programme. The second module introduces techniques for systematically designing instructional units tailored to individual needs. The course requires laboratory work outside class. (3 credits) *NOTE A/See § 200.1*

EDUCATION C317
The Urban Child

This course concentrates upon the life of the inner-city child and the concomitant influences upon his development in and out of the classroom. Students are instructed in how to view the urban area from the child's perspective, through field assignments in inner-city schools or recreation centres. Lectures by social workers, police officers of the youth section, legal aid counsellors and inner-city teachers, heighten the awareness of students to the environment in which the inner-city child lives. (3 credits)

EDUCATION C321
Sex Role Socialization in the School

This course will focus upon how children at the elementary and secondary school level are socialized for different work roles and how work segregation has occurred on the basis of this process. The role of schools and curriculum, then, will be examined in relation to cultural changes in social roles. (3 credits)

EDUCATION C324
Patterns of Educational Culture

This course is an introduction to the variety of cultural settings in which formal schooling and informal education — socialization — take place. The cultural milieu of education both inside the classroom and outside, in the family, the neighbourhood, the market-place and the political arena is the focus of readings and lectures.

The aim of this course is to immerse the student in the concepts of anthropology and education in the broadest sense. It is hoped that students will become sensitized to the concept of culture, cultural assimilation, enculturation, socialization, informal, non-formal and formal educational systems, open and closed societies and cross-cultural comparison. (3 credits)

EDUCATION C370
Practicum III: Classroom Interaction Dynamics: Observation and Field Practice

Prerequisite: Enrolment in Early Childhood Education Specialization or Major in Child Studies or with permission of the Department. This course is designed to encourage both systematic and anthropological observation of children in large and small groups in the classroom. Interaction between child/teacher, children/teacher and children/children will be studied. Models of interaction will be examined and verbal as well as non-verbal communication will be covered. The purpose of this course is to develop more effective teaching. The implications of classroom grouping as well as individual interactions in teaching styles and techniques will be discussed. Videotapes, classroom observation and participation will be employed. (6 credits)

EDUCATION C380
Language Arts in Early Childhood Education

The aim of this course is to give the early childhood educator the skills to develop a stimulating and appropriate language arts programme for the classroom. The course will focus on listening, speaking, reading and writing with special emphasis on integrating language arts activities into the curriculum, on understanding and applying present knowledge in the field of reading instruction. (3 credits)

EDUCATION C381
Number Concepts for Young Children

This course is designed to provide teachers of young children with background mathematical knowledge and teaching competencies necessary for the development of an exciting and creative mathematics programme in the classroom. Methodologies for teaching fundamental mathematical concepts acquired in early childhood (e.g. sets, patterns, numeration) will be studied and evaluated. Students will be expected to become familiar with relevant resource materials and classroom activities used in the teaching of mathematics to young children. (3 credits)

EDUCATION C382
Science Experiences for Young Children

In this course, the role, impact and usefulness of science in Early Childhood Education will be studied. Students will acquire a basic understanding of scientific knowledge in a range of topics and areas interesting to young children. Resource materials, teaching methodology and classroom activities for

early childhood education will be examined and evaluated. Assignments will emphasize developing activities for classroom use. (3 credits)

EDUCATION C390
Current Issues in Education

A consideration of a contemporary issue or issues in education. The issues studies may differ from year to year. (3 credits) *NOTE C/See § 200.1*

EDUCATION C391
Current Issues in Education

Prerequisites: Education C390 and permission of the Department. A student repeating C390 registers for credits under Education C391 (3 credits) *NOTE A/See § 200.1*

EDUCATION C392
Problems in Education

A cross-disciplinary or integrated approach to an educational problem or problems. The problem studied may vary from year to year. (3 credits) *NOTE C/See § 200.1*

EDUCATION C393
Problems in Education

Prerequisites: Education C392 and permission of the Department. A student repeating C392 registers for credits under Education C393. (3 credits) *NOTE A/See § 200.1*

EDUCATION C405
The T.V. Child — The Educational Implications of Children's Television Viewing Patterns

This course will examine the effects of television on children from a cognitive-developmental perspective. Learning theory, productive technique, cognitive theory (information processing) will be the basis around which the examination of communication process between the child and the medium will be examined. Both the positive and negative effects of television on children will be considered. The concept of media literacy and classroom use of television will also be discussed. (3 credits)

EDUCATION C406
Contemporary Issues in Curriculum Development I

Prerequisite: 6 credits in Education. This course will consider a contemporary issue in curriculum growth, change and/or development. The issue studied may differ from year to year. (3 credits)

EDUCATION C407
Contemporary Issues in Curriculum Development II

A student repeating Education C406 registers for credits under Education C407. (3 credits)

EDUCATION C413
Children's Behaviour Problems

Prerequisite: Education C210 or C211. This course will focus on the nature of children's behaviour problems and on methods to understand and modify behaviours which interfere with children's emotional, social and intellectual growth. Students will be involved with the practical applications of the available strategies in order to best help a youngster with behaviour problems according to his needs. Specific classroom techniques for coping with the acting out as well as with the withdrawn child will be given. Students will be taught observational tools, programming suggestions, reinforcement techniques and evaluation methods. (3 credits)

EDUCATION C414
Learning Problems of Children

Prerequisite: Education C210 or C211. This course will describe the causes and kinds of learning problems in young and school age children. Students will be taught the preacademic skills that are involved in learning as well as specific techniques to help youngsters overcome and/or cope with these difficulties. Educational techniques for dealing with problems in reading, mathematics, spelling, writing and language will be discussed. The whole area of learning problems will be related to children's social, emotional and intellectual levels. (3 credits)

EDUCATION C416
Education of the Gifted

Prerequisite: Education C201 or C210 or C211. This course will discuss the special educational problems of gifted children; it will also assess the effectiveness of the techniques usually employed to deal with these problems. (3 credits) *NOTE A/See § 200.1*

EDUCATION C417
Education of the Culturally Disadvantaged

Prerequisite: Education C201 or C210 or C211. This course will describe the cognitive, social and emotional problems of culturally disadvantaged children and discuss educational techniques for coping with their problems. (3 credits) *NOTE A/See § 200.1*

EDUCATION C421
Sociology of Education

Prerequisite: Sociology C210. The social organization of education activities. The role of educational institutions in socialization, social control and technology. Education and stratification, mobility and social change. (6 credits) *NOTE A/See § 200.1*

EDUCATION C426
Selected Topics in Comparative Education I

Prerequisite: 6 credits in Education. The study of current educational issues and problems (e.g. language, nationalism and education; Educational Problems in Multi-ethnic societies; Colonialism, Neo-Colonialism and Education; Socialism and Education; Political Socialization; Education in Literature) from a comparative perspective with particular emphasis on educational systems and practice in Canada, the United States, the United Kingdom, Western Europe, the Soviet Union, China and the Third World Countries. The special topics and comparative examples may differ from year to year accommodating the interests of the instructor and students. (3 credits)
NOTE: Students who have taken EDUC S451 are not eligible to take this course for credits.

EDUCATION C427
Selected Topics in Comparative Education II

Prerequisite: 6 credits in Education. The study of educational change and alternatives (e.g. Socio-political alternatives; Cultural Pedagogical alternatives; Educational Implications of Technological and Economic Theory; Elitism and Egalitarianism in Education) from a comparative perspective with particular emphasis on educational systems and practice in Canada, the United States, the United Kingdom, Western Europe, the Soviet Union, China and Third World countries. The special topics and comparative examples may differ from year to year accommodating the interests of the instructor and students. (3 credits)
NOTE: Students who have taken EDUC S451 are not eligible to take this course for credits.

EDUCATION C430
Philosophy of Education

Prerequisite: 3 credits at university level in Philosophy or Education C230. The application of philosophical method with particular reference to the aims, methods, discipline and concepts of education is considered in this course. Students will be expected to become familiar with the principal authors and with the current periodical literature in the field of philosophy of education. (6 credits) *NOTE A/See § 200.1*

EDUCATION C431
Honours Essay in Education

Open to third-year students in Honours in Education and Philosophy (or to others by permission of the Department). (6 credits) *NOTE A/See § 200.1*

EDUCATION C432
Seminar in Epistemology and Education

Prerequisite: Education C430 or permission of the Department. Theories of knowledge are considered in this course, with special attention being given to the bearing of such topics as perception, evidence, truth, knowing and belief on educational thought and practice. Students will be expected to become familiar with recent periodical and other literature in the field. (3 credits) *NOTE A/See § 200.1*

EDUCATION C433
Seminar in Ethics and Education

Prerequisite: Education C430 or permission of the Department. Students in this course will study the principles and methods of moral justification in education. They will be referred to the writing of main authors and recent periodical literature. (3 credits) *NOTE A/See § 200.1*

EDUCATION C434
Seminar in Aesthetics and Education

Prerequisite: Education C430 or permission of the Department. The nature of aesthetic value and experience, and theories of art and beauty will be examined. The development of the emotions and imagination and their functions in aesthetic awareness are central concerns of this course. Students will be expected to become familiar with the relevant literature in the field. (3 credits) *NOTE A/See § 200.1*

EDUCATION C435
Seminar in Philosophy and Education

Prerequisite: Education C430 or permission of the Department. This is an advanced seminar in philosophical analysis and theory in which students will present papers on, and conduct discussions about, educational concepts, aims and practices. Students will be expected to become familiar with the periodical and other literature in the areas under discussion. (3 credits) *NOTE A/See § 200.1*

EDUCATION C441
History of Educational Ideas

Prerequisite: Second-year standing. In this course students will study major educational ideas and idea systems. These will be reviewed in philosophical, religious, political and social perspective. (6 credits) *NOTE A/See § 200.1*

EDUCATION C442
Education in Canada

Prerequisite: 6 credits in Canadian History. It is advisable that students have a reading knowledge of French. This course will study the history of Canadian education, and, more particularly, the history of education in Quebec. (3 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Canadian Studies Programme.

EDUCATION C445
Education in Quebec

Students in this course will study the contemporary movements in and structures of Quebec education. (3 credits) *NOTE A/See § 200.1*

EDUCATION C461
Issues in Early Childhood Education

Prerequisite: Enrolment in Early Childhood major. This course provides a study of alternative practices and theories of education for preschool, kindergarten and early primary children. Emphasis is placed upon analyses of research and application of theories to issues in education. (6 credits)

EDUCATION C469
Special Topics in Early Childhood Education

This course will deal with selected topics in early childhood education to be announced each year. The course will be designed to allow students to explore in considerable depth an area or problem in education methodology relating theoretical and applied aspects. Possible topics are for example: Moral Development of the Young Child, Media and the Young Child, Teaching English as a Second Language to Young Children. (3 credits)

EDUCATION C470
Early Childhood Education Internship

Prerequisite: Third-year standing in Early Childhood Specialization. This course involves a supervised nursery, kindergarten or early primary school internship of 5 half-days or 2½ full days a week for one semester. In addition, students will participate in weekly seminar discussions of related methodological and developmental concerns. The topics will include behaviour management, language development, reading, writing, chil-

dren's literature and drama, mathematics, science, health, safety and social studies. (6 credits)

EDUCATION C471
Supervised Internship

This course is offered only to students enrolled in the Certificate in Education Programme. Teaching internship will be carried out in the school where the student is employed. The students will be supervised and their teaching performance evaluated. The students are expected to demonstrate positive evidence of teaching competence and professional behavior (6 credits) *NOTE A/See § 200.1*

EDUCATION C480
Special Methods of Teaching — Elementary

This course is offered only to students enrolled in the Certificate in Education programme. It will deal with methods of teaching in the elementary school; emphasis will be placed on practical application of educational theories. (3 credits) *NOTE A/See § 200.1*

EDUCATION C481
Special Methods of Teaching — Secondary

This course is offered only to students enrolled in the Certificate in Education Programme. This course will deal with methods of teaching a high-school subject. The course will be individually designed to suit the student's field of specialization. (3 credits) *NOTE A/See § 200.1*

EDUCATION C497
Selected Topics in Education

Prerequisite: Education C201, or one year's teaching experience, or permission of the Department. Special topics accommodating the interests of the instructor and students. The topics studied may differ from year to year. (3 credits) *NOTE C/See § 200.1*

EDUCATION C498
Selected Topics in Education

Prerequisite: Permission of the Department. A student repeating Education C497 registers for credits under Education C498. (3 credits) *NOTE A/See § 200.1*

31.12.2 ADULT EDUCATION PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

42 Major in Adult Education

15 ADED C200^6, C210^3, C220^3, C230^3
6 ADED C330^3, C331^3
9 Chosen from ADED C340^3, C341^3, C342^3, C350^3
6 Chosen from ADED C460^3, C461^3, C492^3, C493^3, C410^3
6 Chosen from ADED C490^6 or C491^6

30 Certificate in Adult Education

6 ADED C200^6 *
3 Chosen from ADED C330^3 or C331^3
3 Chosen from ADED C340^3 or C341^3
6 ADED C342^3, C410^3
6 Chosen from ADED C490^6 or C491^6
6 Chosen from ADED C210^3, C220^3, C230^3, C330^3, C331^3, C341^3, C342^3, C350^3, C410^3, C460^3, C461^3, C492^3, C493^3

* With permission of the programme Director ADED C200 may be taken concurrently with certain '300' and '400' level Adult Education courses.

ADULT EDUCATION C200
Introduction to Adult and Continuing Education

This course is designed to introduce students to basic concepts and principles of adult education. The course presents an overview of the current field of adult education, its origins, history, and philosophy. The course will provide experience in some collaborative practices of adult education. (6 credits) *NOTE: Please see § 200.1*
NOTE: This course is a prerequisite for all 300 and 400 level courses in Adult Education.

ADULT EDUCATION C210
History and Philosophy of Adult Education

This course will examine the history, philosophy, organization and special problems of formal and informal adult education. The course will also cover current developments and future trends of adult education. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C220
Sociological and Psychological Foundations of Adult Education

The basic theme of the course will be the examination of the sociological and psychological factors of adulthood. The focus will be on the continuities and discontinuities of the processes of earlier life stages. Special emphasis will be given to understanding the sociological and psychological dimensions of adulthood as they relate to curricula design and methodological approaches to adult education. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C230
The Teaching/Learning Process in Adult Education

This course is designed for the student with an orientation to communications, interpersonal relationships and group dynamics as they apply to the adult education experience. The course will provide the student with the background and experiences necessary to become an effective group facilitator for adult education. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C330
Techniques and Methods in Adult Education for Formal Settings

Prerequisite: ADED C200. The purpose of this course is to explore a variety of techniques and approaches which might be effectively utilized in adult programmes conducted in formal settings. The focus will be on examining traditional and innovative practices that are typically employed in classroom settings. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C331
Techniques and Methods in Adult Education for Informal Settings

Prerequisite: ADED C200. The focus of this course will be on examining techniques and practices of adult education which are utilized outside of formal classroom settings. The course will explore a variety of techniques and approaches to facilitate adult learning through non traditional formats. The course will cover such aspects as adult education through television, learning via advertising, individual learning projects, and other aspects of independent adult learning via informal formats. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C340
Curriculum Development for Continuous Learning

Prerequisite: ADED C200. This course will examine the philosophical and psychological underpinnings of various models of adult curriculum planning. The emphasis will be on curricula planning for educational experiences of extended duration such as courses in formal settings. Students will be given an opportunity to develop and design an adult educational experience. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C341
Instructional Design for Adult Learning

Prerequisite: ADED C200. This course will focus on the design of instructional paradigms which effectively facilitate learning in a variety of contexts — especially in informal settings. The course will provide an opportunity to explore and apply psychological principles to design adult learning experiences. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C342
The Evaluation of Adult Learning

Prerequisite: ADED C200 and C340 or C341. The course will cover selected evaluation concepts and techniques and their use in assessing and improving adult education instruction. The course will focus on techniques of collecting information and providing feedback regarding programme operation and impact. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C350
Educational Gerontology

Prerequisite: ADED C200. This course will examine three aspects of education related to gerontology: Developing and designing educational experiences for the aged, developing education for and about the process of aging, and educational training for professionals and paraprofessionals associated with gerontology. A major component of the course will be to examine the phenomenon of retirement and the relationship and potential of education to facilitate the process of continued growth and development. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C410
Adult Education in Canada

Prerequisite: ADED C200 or 6 credits in Education. This course will study the history, philosophy, organization and special problems of formal and informal adult education, with particular reference to current developments in Canada. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C460
Research in Adult Education I

This course will consist of writing an integrated literature review. It is intended to make the student a critical consumer of research in adult education. The course will cover key research concepts necessary in reading and understanding research articles. The student will acquire the necessary skills to locate a given body of research for a particular topic. It is also expected that the student will write a review of existing research for a topic of interest. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C461
Research in Adult Education II

Prerequisite: ADED C200 and C460. This course will consist of developing a research proposal. Where possible and appropriate the student will be encouraged to carry out the research outlined in the proposal. The course will cover the basic elements of writing a research proposal: statement of the problem, review of the literature, formulation of hypotheses, research design, instrumentation, sampling, data collection, and significance of the study. The course will also cover ethical issues and principles regarding research involving humans. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C490
Practicum and Field Placement Seminar in Adult Education

Prerequisite: ADED C200 and permission of the Department. This course requires that the student work directly with adults in an educational programme or set of experiences such as workshops. Where feasible, the practicum placement will be coordinated with the students work setting. A seminar will be run in conjunction with the practicum experience. The seminar is designed so that students can share problems, issues and experiences of their practicum setting. (6 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C491
Special Projects Seminar in Adult Education

Prerequisite: ADED C200 and permission of the Department. The student will develop and design a special project of interest in the area of adult education. In addition to providing the student with on hand experience, the course is designed to provide the student with grant writing skills. A contract for conducting the project and a final report for the project will be written as if for a granting institution. Where possible and appropriate, students will be encouraged to write grants to obtain funds for the project or programme which is implemented. (6 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C492
Special Topics Seminar in Adult Education

Prerequisite: ADED C200 or permission of the Department. The subject for the seminar will vary from year to year reflecting recent developments in adult education, special interests of the students or the instructor. (3 credits) *NOTE: Please see § 200.1*

ADULT EDUCATION C493
Independent Study in Adult Education

Prerequisite: ADED C200 or permission of the Department. This course is designed to provide the student with an opportunity to pursue an in depth analysis of a particular topic area. The student may elect to pursue a literature review of a subject of interest or develop an action programme with adult learners. The student is responsible for drawing up a project contract with a faculty advisor. (3 credits) *NOTE: Please see § 200.1*

31.13 English

Chairman
M. BRIAN, *Associate Professor*

Professors
H. BEISSEL
M. BUTOVSKY
M. FOSTER
W. FRANCIS
D. KETTERER
R. PHILMUS
R. TOBIAS

Associate Professors
G. AUCHINACHIE
R. BELKIN
A. BROES
A. BRUNÉ
H. R. FINK
G. GEDDES
J. S. HERZ
S. DE V. HOFFMAN
P. J. HOLLAND
L. E. MACLEAN
R. K. MARTIN
D. B. MCKEEN
L. R. MENDELSOHN
P. A. MORLEY
A. NEWELL
L. P. NOWICKI
E. PECHTER
M. PHILMUS
L. J. POTEET
A. RAM
E. C. RONQUIST
G. D. SHEPS
R. J. SOMMER
J. R. SORFLEET
R. S. WAREHAM
K. E. WATERS

Assistant Professors
W. CUDE
H. HILL
B. OPALA
D. TAYLOR

Special Lecturers
S. BLICKER
A. G. HOOPER
L. PETERSON
E. SPENCER

Writer-in-Residence
F. R. SCOTT

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60* BA Honours in English*

12** Students must take 12 credits from among Groups A, B and C with no more than 6 credits from any one group.**
Group A
ENGL C256[6] or C257[3] and C258[3], C259[6], C260[6], C262[6], C263[6], C267[6], C268[6]
Group B
ENGL C271[3], C273[3], C275[3], C277[3], C280[3], C281[6], C282[6], C283[6], C284[6]
Group C
ENGL C286[6] or C287[3] and C288[3], C297[3], C298[3], C304[6], C305[6], C390[6], C392[6]

6 ENGL C290[6] or C291[3] and C292[3], C295[3], C296[3], C300[6] or C301[3] and C302[3], C376[6], C377[6]

6 Chosen from ENGL C310[6] through C330[6] (excluding C320[6]) and C430[6]

12 Chosen from ENGL C310[6] through C344[6] (excluding C320[6]) and C430[6]

6 Chosen from ENGL C310[6], C311[3], C312[3], C320[6], C328[3] C329[3], C330[6]

12 ENGL elective credits (6 credits may be chosen from approved cognate courses CLAS C211[3], C212[3])

6 Chosen from ENGL C310[6] through C499[6]

* *NOTE: At least 6 credits must be chosen from among Canadian literature courses ENGL C290[6] or C291[3] and C292[3], C376[6], C377[6]*

** *NOTE: One of ENGL C225[6], C226[6], C227[6] may be substituted for courses in Groups B or C.*

60* BA Specialization in English*

12** Students must take 12 credits from among Groups A, B and C with no more than 6 credits from any one group.**
Group A
ENGL C256[6] or C257[3] and C258[3], C259[6], C260[6], C262[6], C263[6], C267[6], C268[6]
Group B
ENGL C271[3], C273[3], C275[3], C277[3], C280[3], C281[6], C282[6], C283[6], C284[6]
Group C
ENGL C286[6] or C287[3] and C288[3], C297[3], C298[3], C304[6], C305[6], C290[6], C392[6]

6 ENGL C290[6] or C291[3] and C292[3], C295[3], C296[3], C300[6] or C301[3] and C302[3], C376[6], C377[6]

18 Chosen from ENGL C310[6] through C344[6] (excluding C320[6]) and C430[6]

6 Chosen from ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]

18 ENGL elective credits (6 credits may be chosen from approved cognate courses CLAS C211[3], C212[3])

* *NOTE: At least 6 credits must be chosen from among Canadian literature courses ENGL C290[6] or C291[3] and C292[3], C376[6], C377[6]*

** *NOTE: One of ENGL C225[6], C226[6], C227[6] may be substituted for courses in Groups B or C.*

42 BA Major in English

12* Students must take 12 credits from among Groups A, B and C with no more than 6 credits from any one group.*
Group A
ENGL C256[6] or C257[3] and C258[3], C259[6], C260[6], C262[6], C263[6], C267[6], C268[6]
Group B
ENGL C271[3], C273[3], C275[3], C277[3], C280[3], C281[6], C282[6], C283[6], C284[6]
Group C
ENGL C286[6] or C287[3] and C288[3], C297[3], C298[3], C304[6], C305[6], C390[6], C392[6]

6 Chosen from ENGL C290[6] or C291[3] and C292[3], C295[3], C296[3], C300[6] or C301[3] and C302[3], C276[6], C377[6]

12 Chosen from ENGL C310[6] through C344[6], C430[6]

12 ENGL elective credits (6 credits may be chosen from approved cognate courses CLAS C211[3], C212[3])

* *NOTE: One of ENGL C225[6], C226[6] or C227[6] may be substituted for courses in Groups B or C*

42 BA Major in Creative Writing*

12 Chosen from ENGL C225[6], C226[6], C227[6]

6 Chosen from ENGL C425[6], C426[6] and C427[6]

6 Chosen from ENGL C398[6]**, C411[6], C412[6], C413[6], C425[6], C426[6], C427[6]

6 Chosen from ENGL C290[6], or C291[3] and C292[3], C376[6], C377[6]

12 ENGL elective credits in literature courses

* *NOTE: Students wishing to register for the Major in Creative Writing must submit a portfolio of their work which may be submitted after the completion of 12 credits chosen from ENGL C225[6], C226[6] and C227[6]*

** *NOTE: Students intending to take ENGL C398[6] should note that ENGL C211[6] or C212[3] and C213[3] are prerequisite.*

24 Minor in English Language

24 Chosen from ENGL C211[6] or C212[3] and C213[3]; C215[3], C256[6] or C257[3] and C258[3]; C314[6], C393[3], C394[3], C396[6], C430[3], C475[3], C477[3]

24 Minor in English Literature

24 ENGL elective credits in literature courses*

* *Students are encouraged to consult the department in selecting their courses.*

24 Minor in English Dramatic Literature

6 ENGL C320[6]

18 Chosen from ENGL C227[6], C427[6] or English elective credits in dramatic literature

30 Minor in Creative Writing

12 Chosen from ENGL C225[6], C226[6], C227[6]

12* Chosen from ENGL C398[6]**, C411[6], C412[6], C413[6], C425[6], C426[6], C427[6]

6 ENGL elective credits

* *NOTE: At least 6 credits in this group must be chosen from C425[6], C426[6] or C427[6]*

** *NOTE: Students intending to take ENGL C398[6] should note that ENGL C211[6] or C212[3] and C213[3] are prerequisite.*

72 BA Joint Honours in English and French

6 ENGL credits chosen from courses C256 through C284

6 ENGL credits chosen from courses C286 through C305; C376[6], C377[6], C390[6], C392[6]

6 ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]

12 ENGL credits chosen by genre or periods to parallel choice in French courses to be chosen in consultation with the departments

18 FRAN C251[6], C270[3], C271[3], C320[6] or C321[3] and C322[3], C324[6]

12 FRAN credits chosen by genre or periods to parallel choice in English courses to be chosen in consultation with the departments

6 Elective credits in English or French, outside the parallel periods or genre chosen

6 ENGL C499[6] or FRAN C498[6]*

* *NOTE: Students intending to take FRAN C498[6] should note that it has a 400-level prerequisite. 6 of the 12 FRAN elective credits should therefore be chosen at the 400-level.*

72 BA Joint Honours in English and History

6 Chosen from ENGL C256 through C284

6 Chosen from ENGL C286 through C305; C376[6], C377[6], C390[6], C392[6]

6 ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]

12 ENGL credits chosen from two different periods to parallel History courses to be chosen in consultation with the departments

6 ENGL or HIST elective credits

12 HIST credits to parallel ENGL courses in consultation with the Departments

12 HIST Honours Seminars

6 HIST elective credits

6 ENGL C490[6] or HIST C490[6]

72 BA Joint Honours in English and one of the Modern Languages

6 Chosen from ENGL C256 through C284

6 Chosen from ENGL C286 through C305; C376[6], C377[6], C390[6], C392[6]

6 ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]

12 ENGL credits chosen from two different periods to parallel Modern Language courses to be chosen in consultation with the departments

12 Modern Language credits in one language chosen from two different periods to parallel English courses to

be chosen in consultation with the departments
18 Elective credits from one modern language
6 ENGL or Modern Language elective credits
6 ENGL C491[6]

72 BA Joint Honours in English and Philosophy

6 Chosen from ENGL C256 through C284
6 Chosen from ENGL C286 through C305; C376[6], C377[6], C390[6], C392[6]
6 ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]
12 ENGL credits related to the area(s) of philosophical concentration to be chosen in consultation with the departments
6 ENGL or other credits chosen in consultation with the Departmental Honours Adviser
6 Chosen from PHIL C201[3], C202[6], C211[6], C223[3]
6 Chosen from PHIL C226[3], C228[3], C241[6], C321[6]
6 Chosen from PHIL C310[6], C312[6], C313[6], C331[6]
6 Chosen from PHIL C353[3], C449[6], C469[6], C485[6], C486[3], C488[3]
6 Chosen from PHIL C348[6], C410[6], C412[6], C417[6], C455[3], C456[6]
6 PHIL elective credits at 300 or 400 level

72 BA Joint Honours in English and Religion

6 Chosen from ENGL C256 through C284
6 Chosen from ENGL C286 through C305; C376[6], C377[6]
6 Chosen from ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]
12 ENGL elective credits related by subject to courses in Religion to be chosen in consultation with the departments
6 ENGL elective credits
6 Chosen from RELI C211[6], C213[6], C222[6]
12 RELI C301[3], C302[3], C341[6]
6 Chosen from RELI C311[6], C312[6], C313[6], C326[3], C327[3], C328[3], C330[3], C361[6], C362[6]
12 RELI elective credits at 300 or 400 level related by subject matter to courses in English to be chosen in consultation with the departments

60 BA Joint Specialization in English and History

6 Chosen from ENGL C256 through C284
6 ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]
12 ENGL credits chosen from two different periods to parallel History courses to be chosen in consultation with the departments
6 ENGL elective credits
12 HIST credits chosen from two different historical periods to parallel English courses to be chosen in consultation with the departments
18 HIST elective credits

60 BA Joint Specialization in English and one of the Modern Languages

6 Chosen from ENGL C256 through C284
6 ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]
12 ENGL credits chosen from two different periods to parallel Modern Language courses to be chosen in consultation with the departments
6 ENGL elective credits
12 Modern Language credits in one language chosen from two different periods to parallel English courses to be chosen in consultation with the departments
18 Elective credits chosen from one modern language

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200 level courses and 300 level courses without prerequisites are open to all students and may be used as English electives unless otherwise indicated.

Admission to the Honours programme is granted at the end of the student's first year, after departmental review. Students seeking admission to the Honours programme on or after June 1st 1977 will be bound by the Honours requirements outlined in the Academic Regulations § 16 of this calendar. Students who already had Honours status by June 1st 1977 will continue to be governed by the requirements which applied at the date of their admission to the Honours programme.

Due to the extensive renumbering of English Department courses, students are advised to consult § 200 of the calendar for a list of equivalent courses.

ENGLISH C205
Basic Language Skills — Stage I

A course in English composition for students who need basic training in written and spoken English. Emphasis will be placed on grammar, sentence structure and other fundamentals of good usage. (3 credits)

ENGLISH C206
Basic Language Skills — Stage II

A course in language skills and research techniques for students who need basic training in the preparation of effective reports, term papers and other written accounts of their work for business and academic purposes. (3 credits)

ENGLISH C209
Elements of Written English

Prerequisite: Permission of the Department. This course will deal with problems in written English which students encounter when writing university assignments. The course will begin a few weeks after the commencement of term. This will give students an opportunity to register for it after they have discovered deficiencies in their written English which hinder their academic progress. (3 credits) *NOTE A/See § 200.1*

ENGLISH C211
English Composition

This course is designed to help the students to develop skills in writing, research, and documentation, so that they may be

able to prepare written accounts of their work clearly, concisely, and in a logically organized way. (6 credits) *NOTE A/See § 200.1*
NOTE: This course may not be taken for credit with English C212 or C213.

ENGLISH C212
English Composition — Stage I

This course in English composition is designed to provide students with the basic training in writing upon which all forms of effective written communication are founded. Stress will be laid on the development of skills in the writing of good expository prose through a study of the basic rules of grammar, in the organization of essays, in effective sentence construction and diction, in effective paragraphing and in paraphrasing and summarising. (3 credits)
NOTE: Students who have taken English C211 may not take this course for credit.

ENGLISH C213
English Composition — Stage II

Prerequisite: English C212 or permission of the Department. This course develops further the writing skills acquired in English C212. The aim of this course is two-fold: a) to develop skill in writing appropriate to the audience; and b) to familiarize students with research techniques necessary for the preparation of term papers and other written accounts for business and academic purposes. Instruction will focus on the techniques of persuasion, narration and description, on logical structure and on how to use the library. (3 credits)
NOTE: Students who have taken English C211 may not take this course for credit.

ENGLISH C215
Rhetoric

An inquiry into the nature and function of Rhetoric (Classical and "New"), and of rhetorical criticism; a study of the fundamentals, and some of the refinements, of prose style; logical and rhetorical analysis, and original compositions. (3 credits)

ENGLISH C225
Creative Writing: Poetry

A seminar in the writing and criticism of poetry, including detailed discussion and written criticism of the students' work, and, at the discretion of the instructor, the study of selected poems. (6 credits)

ENGLISH C226
Creative Writing: Prose

A seminar in the techniques of short fiction, including investigations of and exercises in a variety of creative and technical problems, as well as analysis and criticism of the students' own work. Students may be required to read selected works of short fiction. (6 credits) *NOTE A/See § 200.1*

ENGLISH C227
Creative Writing: Drama

A seminar in the writing of plays, including an exploration of dramatic forms and techniques. The students are expected to submit work of their own for discussion and analysis. (6 credits) *NOTE A/See § 200.1*

ENGLISH C232
The Oral Interpretation of Poetry and Drama

The aim of this course is to demonstrate the close relationship between the rhythm and texture of the spoken word and meaning in poetry and drama. We shall read aloud poems and scenes from plays, studying the importance of emphasis to meaning and (in the latter) the relationship of dialogue to character. (6 credits)

ENGLISH C234
The Bible and English Literature

A study of the literary handling of Biblical material and the literary uses of Biblical allusion in English Literature by authors such as Milton, Bunyan, Blake, Byron and T. S. Eliot. (6 credits)

ENGLISH C237
Children's Literature

A survey and analysis of literature for children, undertaken with the aim of developing a critical vocabulary and of arriving at workable standards of assessment. The kinds of literature discussed will include works written for adults but traditionally read by children as well, works specifically written or adapted for children, fairy tales and other children's versions of folklore and myth, nursery rhymes and other children's verse. The course will be of general interest to students of literature, and should prove especially helpful to those who teach children in the schools. (6 credits) *NOTE A/See § 200.1*

ENGLISH C238
Canadian Children's Literature

This course examines the ways in which elements of the Canadian experience such as language, setting, folklore and history have contributed to the content and tradition of children's literature in Canada. (3 credits) *NOTE A/See § 200.1*

ENGLISH C239
Topics in Children's Literature

This course deals with specific topics such as the works of an author or group of authors, or a particular theme, or development of a genre. The topics to be studied may vary from year to year. (3 credits) *NOTE A/See § 200.1*

ENGLISH C244
Special Topic in English — I

A basic or introductory course in a special subject of general interest for which no prerequisites in English are necessary. The subject will vary from year to year. (3 credits)

ENGLISH C245
Special Topic in English — II

A basic or introductory course in a special subject of general interest for which no prerequisites in English are necessary. The subject will vary from year to year. (3 credits)

ENGLISH C249
Women in Literature I

A selection of short stories, poems and plays by authors such as Ibsen, Lawrence, Mailer, Pinter, and MacEwen in which woman is of major importance, either as the central experiencing character in adolescence, maturity and old age, or as the

embodiment of sexual archetypes and social roles. (3 credits)
NOTE: This course may be taken for credits in the Women's Studies Programme.

ENGLISH C250
Women in Literature II

Prerequisite: English C249 or a course which has stressed the novel as form. A study of some women novelists emphasizing Charlotte Bronte, Woolf, Lessing and Atwood, and including others from among George Eliot, Rhys, Plath, Drabble, Engel, Watson and Munro. (3 credits)
NOTE: This course may be taken for credits in the Women's Studies Programme.

ENGLISH C251
Selected Topics in Literature Written by Women I

This course explores the ways in which women have employed conventions of such literary genres as poetry, the novel, and the drama to define their own lives and those of their contemporaries. The emphasis will be on literary analysis of the works; the course will also deal with the social and historical circumstances which are relevant to the works in question. The texts studied, the themes and concepts pursued, will vary from year to year. (3 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Women's Studies Programme.

ENGLISH C252
Selected Topics in Literature Written by Women II

A student repeating English C251 for credits will register under English C252. (3 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Women's Studies Programme.

ENGLISH C254
Psychology and Literature

A study of the relationship between the basic theories of psychology or psychoanalysis and literature through a consideration of selected literary works such as novels, poems, dramas and fairy tales. (6 credits)

ENGLISH C255
Translation

Prerequisite: Fluency in both French and English. Intensive work to improve the student's skill at translating a variety of texts from French to English. Emphasis will be placed on non-literary texts. Training will be given in style and idiom. The course will help the student gain proficiency in rendering a variety of French texts in idiomatic English prose. (6 credits)

ENGLISH C256
Major Writers in English

An introduction to major periods of English literature through the study of such representative authors as Chaucer, Shakespeare, Marlowe, Jonson, Donne, Milton, Swift, Pope, Blake, Coleridge, Wordsworth, Keats, Shelley, Dickens, Hardy, Browning, Tennyson, Conrad, Lawrence, Yeats, Eliot, Woolf, Joyce. (6 credits)
NOTE: This course may not be taken for credit with English C257 or C258.

ENGLISH C257
Introduction to English Literature I

An introduction to Chaucer, Spenser, Shakespeare, Milton and other major English authors of the Middle Ages and the sixteenth and seventeenth centuries. (3 credits)
NOTE: This course may not be taken for credit with English C256.

ENGLISH C258
Introduction to English Literature II

A continuation of English C257. An introduction to Swift, Pope, Wordsworth, Tennyson, Yeats, T. S. Eliot, and other major English authors of the eighteenth, nineteenth and twentieth centuries. (3 credits)
NOTE: This course may not be taken for credit with English C256.

ENGLISH C259
Literature: Ideas and Myths

An exploration through literature of some of the myths which generate our ideas and some of the ideas which rationalize our myths. A study of *Gilgamesh, The Republic of Plato, Antony and Cleopatra, The Marriage of Heaven and Hell, Crime and Punishment, 2001,* and other works. (6 credits)

ENGLISH C260
Myth in Literature

The sources, development and continuing function of some central Mediterranean myths. The course defines the nature and functions of myth, traces the most influential myths from their first appearance in literature to their transformation in the Christian art of Europe, and goes on briefly to examine their use by contemporary writers. The primary texts include the Bible in the King James version, and such works as the *Apocrypha,* the *Odyssey,* selected Greek tragedies, and Ovid's *Metamorphoses.* (6 credits)

ENGLISH C262
Medieval Literature in Translation

An introductory study of some major works in England and Europe between 400 and 1400, beginning with St. Augustine, and including examples of epic, Grail literature and courtly romance, such as *Beowulf, The Song of Roland, The Cid,* Chrétien de Troyes' *Parsifal, Tristan and Isolde, The Romance of the Rose,* and parts of Dante's *Divine Comedy.* (6 credits) *NOTE A/See § 200.1*

ENGLISH C263
European Literature from the Middle Ages to the Onset of Modernism

A study of some of the classical works of European literature from Dante to Dostoevsky, including such writers as Boccaccio, Rabelais, Cervantes, Rousseau and Goethe, with emphasis on evolving cultural patterns leading from Faith to Reason and beyond. (6 credits) *NOTE A/See § 200.1*

ENGLISH C267
The Origins of Drama

An introductory study of Greek and Roman dramatists, and the medieval drama, both English and Continental. The course will be concerned with dramatic types, theory and form, and with the significance of this drama to the later English stage. (6 credits)
NOTE A/See § 200.1

ENGLISH C268
Masterpieces of English Literature Before 1603

An introduction to the origin and development of English literature in the Old English, Medieval and Tudor periods through a reading of *Beowulf* (in translation), and authors such as Chaucer, Malory, Spenser, More and Marlowe. (6 credits)

ENGLISH C271
Practical Criticism

A close examination of literary works of every genre and most major periods from a variety of critical perspectives. (3 credits)

ENGLISH C273
Fiction

A study of the development of the novel as a literary genre through the reading of novels by authors such as Defoe, Fielding, Austen, Dickens and Joyce. (3 credits)

ENGLISH C275
Poetry

A study of poetry and its forms with emphasis upon the art of close reading. (3 credits)

ENGLISH C277
Drama

A study of a varied selection of plays from both an historical and a generic point of view that will introduce students to the problems and delights of reading, visualizing, making and seeing plays. (3 credits)

ENGLISH C279
Drama and Poetry

Selections for study will be grouped around some central theme of particular relevance to life in the present age. Specific themes and reading lists will be chosen by individual instructors. (3 credits)

ENGLISH C280
Short Fiction

A study of forms and techniques of the short story, the Novella, and what have come to be called in contemporary literature "fictions". (3 credits)

ENGLISH C281
Tragedy: A Literary Mode

A study of the varieties of tragic form and sensibility in Western literature. The course includes writers chosen from antiquity to the present, both within and outside the English tradition, such as Shakespeare, Euripides, Hardy, Tolstoy, Webster, Racine, Faulkner, Buchner, Rilke and Chekhov. (6 credits)
NOTE A/See § 200.1

ENGLISH C282
Comedy

A study of the nature and varieties of comic form and sensibility in Western literature. The course includes writers chosen from antiquity to the present, both within and outside the English tradition, such as Aristophanes, Cervantes, Jonson, Molière, Sterne, Gogol, Balzac, Leacock and Amis. (6 credits)

ENGLISH C283
Satire

A study of the nature and varieties of satire. The course includes writers chosen from antiquity to the present, both within and outside the English tradition, such as Juvenal, Lucian, Chaucer, Erasmus, Swift, Voltaire, Orwell, Waugh, Beckett, Roth, Richler and Grass. (6 credits)

ENGLISH C284
Critical Approaches to Literature

A study of the major theories and their practical application to works of literature, with special emphasis on 20th Century criticism. (6 credits)

ENGLISH C286
Twentieth Century British Literature

A study of twentieth century British authors such as Joyce, Yeats, Woolf, Shaw, E. M. Forster, Waugh, T. S. Eliot, Auden and Lessing. (6 credits)
NOTE: This course may not be taken for credit with English C287 or C288.

ENGLISH C287
Modern British Literature

A study of modern British authors such as Hardy, Hopkins, Conrad, Lawrence, E. M. Forster, Yeats and T. S. Eliot. (3 credits)
NOTE: This course may not be taken for credit with English C286.

ENGLISH C288
Contemporary British Literature

A study primarily of post World War II British authors such as Beckett, Thomas, Osborne, Pinter, Auden and Lessing. (3 credits)
NOTE: This course may not be taken for credit with English C286.

ENGLISH C290
Canadian Literature

An introductory survey of Canadian prose and poetry, written in or translated into English, from their origins to the present. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.
NOTE: This course may not be taken for credit with English C291 or C292.

ENGLISH C291
Canadian Fiction

Through readings in fiction, this course will examine themes and styles in Canadian Literature. (3 credits)
NOTE: This course may be taken for credit in the Canadian Studies Programme.
NOTE: This course may not be taken for credit with English C290.

ENGLISH C292
Canadian Poetry

Through readings in poetry, this course will examine themes and styles in Canadian Literature (3 credits)
NOTE: This course may be taken for credit in the Canadian Studies Programme.
NOTE: This course may not be taken for credit with English C290.

ENGLISH C295
Commonwealth Literature I

Selected novels, short stories and poetry from West Africa, East Africa and Caribbean. (3 credits)

ENGLISH C296
Commonwealth Literature II

Selected novels, short stories and poetry from South Africa, Rhodesia, India, Australia and New Zealand. (3 credits)

ENGLISH C297
Modern Fiction I

A study of major American and European novelists of the earlier modern period such as Melville, Dostoevsky, Tolstoy, Conrad, Kafka, Joyce, Mann and Faulkner. (3 credits)

ENGLISH C298
Modern Fiction II

A study of major American and European novelists of the later modern period such as Malraux, Satre, Camus, Kazantzakis, Solzhenitsyn, Bellow and Pynchon. (3 credits)

ENGLISH C300
American Literature

A survey of the literature of the United States beginning with the early writers and their optimistic vision of a new society, and studying such problems as the transformation and inversions of the "American Dream" in such writers as Poe, Hawthorne, Melville, Twain, Whitman and Fitzgerald. (6 credits)
NOTE: This course may not be taken for credit with English C301 or C302.

ENGLISH C301
American Literature: Nineteenth-Century

A study of major nineteenth century American writers such as Poe, Thoreau, Emerson, Hawthorne, Melville, Whitman and Dickinson. (3 credits)
NOTE: This course may not be taken for credit with English C300.

ENGLISH C302
American Literature: Twentieth-Century

A study of major twentieth century American writers such as Fitzgerald, Hemingway, Faulkner, Stevens and Frost. (3 credits)
NOTE: This course may not be taken for credit with English C300.

ENGLISH C304
Modern British and American Literature

A study of works in English from what has now emerged as the "Modern" period, extending from the turn of the century to World War II, and including such writers as Conrad, Joyce, Lawrence, Eliot, Yeats, Dylan Thomas, Stevens, Hemingway, Faulkner, Frost and Synge. (6 credits)

ENGLISH C305
Modern European Literature

A survey of some of the major European writers (in translation) of the last hundred years, including such writers as Dostoevsky, Kafka, Mann, Strindberg, Valery, Pirandello and Sartre. (6 credits)

ENGLISH C310
Chaucer

A study of the major poetry of Chaucer, emphasizing The *Canterbury Tales* and *Troilus and Criseyde.* (6 credits)
NOTE: A maximum of 6 credits may be taken from English C310, C311 and C312.

ENGLISH C311
Chaucer I: The Canterbury Tales

A study of *The Canterbury Tales* in general, and of six or seven tales in particular. (3 credits)
NOTE: A maximum of 6 credits may be taken from English C310, C311 and C312.

ENGLISH C312
Chaucer II: Troilus and Early Poems

A study of *Troilus and Criseyde* and selected early poems. (3 credits)
NOTE: A maximum of 6 credits may be taken from English C310, C311 and C312.

ENGLISH C314
Middle English Literature

A study of literature written in the English dialects from 1200 to 1500, including works such as *Sir Gawain* and the *Green Knight* and other romances, early lyrics, religious prose, drama, and selections from Layamon's *Arthurian Brut,* Langland's *Piers Plowman,* and Malory's *Morte Darthur.* (6 credits)

ENGLISH C315
English Renaissance Literature

A study of poetry and prose in English from More to Milton, including such writers as Wyatt, Surrey, Sidney, Spenser, Bacon, Donne, the Metaphysical poets, Jonson, the Caroline lyricists, Browne. (6 credits)
NOTE: This course may not be taken for credit with English C316 or C317.

ENGLISH C316
Spenser

This course is intended to examine Spenser's works — *The Amoretti* and *The Faerie Queene* in particular — and their relations to the pertinent literary traditions, both English and continental. (3 credits)
NOTE: This course may not be taken for credit with English C315.

ENGLISH C317
Elizabethan Prose and Poetry

Significant works of Elizabethan non-dramatic literature will be studied both as individual creations and as samples of the most important trends in non-dramatic verse and prose of the time. (3 credits)
NOTE: This course may not be taken for credit with English C315.

ENGLISH C318
English Renaissance Drama

A study of English drama from the Tudor interlude to the closing of the theatres in 1642, including such dramatists as Kyd, Marlowe, Dekker, Jonson, Beaumont and Fletcher, Webster, Middleton and Ford. Some consideration will also be given to Shakespeare. (6 credits)

ENGLISH C320
Shakespeare

An examination of Shakespeare's artistic achievement in some of the major plays. (6 credits)

ENGLISH C326
Seventeenth Century Poetry

The course will put major emphasis on the poetry of Milton. Other poets to be studied will be selected from among Jonson, Donne, Herbert, Herrick and Marvell. (6 credits)
NOTE: This course may not be taken for credit with English C327.

ENGLISH C327
Early Seventeenth-Century Literature

A study of the poetry and some of the prose of the period, with special emphasis on the work of John Donne. (3 credits)
NOTE: This course may not be taken for credit with ENGL C326.

ENGLISH C328
Milton I: The Early Lyric Poetry and *Paradise Lost*

This course will cover the early lyric poems and masques (1629-37) and will undertake a detailed study of *Paradise Lost.* (3 credits)
NOTE: A maximum of 6 credits may be taken from English C328, C329 and C330.

ENGLISH C329
Milton II: *Paradise Regained* and Other Writings

This course will examine Milton's work in a variety of genres: tragedy *(Samson Agonistes),* post-1645 sonnets, epic *(Paradise Regained)* and selections from the prose essays and tracts. (3 credits)
NOTE: A maximum of 6 credits may be taken from English C328, C329 and C330.

ENGLISH C330
Milton

A study of Milton's *Paradise Lost* and other works such as the shorter poems, selected prose, *Paradise Regained* and *Samson Agonistes.* (6 credits)
NOTE: A maximum of 6 credits may be taken from English C328, C329 and C330.

ENGLISH C332
Literature of the Restoration and 18th Century

A study of poetry and prose from the 1660's to the 1780's, including such major writers as Dryden, Swift, Pope and Johnson. (6 credits)
NOTE: A maximum of 6 credits may be taken from English C332, C333 and C334.

ENGLISH C333
Restoration and Early Eighteenth Century Literature

Major Augustan authors, including Dryden, Swift and Pope. (3 credits)
NOTE: A maximum of 6 credits may be taken from English C332, C333 and C334.

ENGLISH C334
Eighteenth-Century Literature

A study of major authors of the eighteenth century such as Swift, Richardson, Fielding and Johnson. (3 credits)
NOTE: A maximum of 6 credits may be taken from English C332, C333 and C334.

ENGLISH C335
Restoration and Eighteenth-Century Drama

A study of the English stage from Dryden to Sheridan, including such dramatists as Etherege, Otway, Wyncherley, Vanbrugh, Congreve, Gay, Lillo and Goldsmith. (3 credits)

ENGLISH C338
English Literature of the Romantic Period

A study of poetry and prose, chiefly that of Blake, Wordsworth, Coleridge, Byron, Shelley and Keats. (6 credits)
NOTE: A maximum of 6 credits may be taken from English C338, C339 and C340.

ENGLISH C339
The Romantics I

The course will survey the major poets of the first part of the Romantic period (Blake, Wordsworth, Coleridge) with historical background and emphasis on the common technical and thematic elements of Romantic poetry. (3 credits)
NOTE: A maximum of 6 credits may be taken from English C338, C339 and C340.

ENGLISH C340
The Romantics II

The course will survey the major poets of the second part of the Romantic period (Byron, Shelley and Keats) with historical background and emphasis on the common technical and thematic elements of Romantic poetry. (3 credits)
NOTE: A maximum of 6 credits may be taken from English C338, C339 and C340.

ENGLISH C342
Victorian Literature

A study of English poetry and prose from the 1830's to the end of the nineteenth century, including such major writers as Tennyson, Browning, Hopkins, Carlyle, Newman, Ruskin, Dickens, Thackeray and Eliot. (6 credits)
NOTE: A maximum of 6 credits may be taken from English C342, C343 and C344.

ENGLISH C343
Victorian Prose

A study of Victorian prose writers such as Dickens, George Eliot, Thackeray, Carlyle, Arnold and Mill. (3 credits)
NOTE: A maximum of 6 credits may be taken from English C342, C343 and C344.

ENGLISH C344
Victorian Poetry

A study of Victorian poets such as Tennyson, Browning, Hopkins, Swinburne and Hardy. (3 credits)
NOTE: A maximum of 6 credits may be taken from English C342, C343 and C344.

ENGLISH C346
Nineteenth-Century Fiction

Emphasis will be on the variety of fictional modes and styles used during this period, and their relevance to the social and intellectual history of the age. Novelists will be chosen from among the following: Austen, Scott, the Brontes, Dickens, Thackeray and George Eliot. (6 credits)

ENGLISH C349
The English Theatre in the Nineteenth Century

A study of drama and dramatic modes from Shelley to Shaw, including forms such as the melodrama, the Gothic thriller, Romantic verse drama, comedy, farce, burletta,

operetta, and the "new drama" of the 1890's. Among features that may be considered are innovations such as limelight and the act curtain, the emphasis on spectacle, and the phenomena of the star system and the actor-manager. (3 credits)

ENGLISH C350
Late Victorian and Edwardian Literature

The end of the Victorian era and the beginnings of modernism. Novelists include James, Forster, Gissing, Woolf, Wilde, and Beardsley. (6 credits)

ENGLISH C354
Anglo-Irish Literature

Emphasis on the major English language writers of Ireland: notably O'Casey, Synge, Lady Gregory, Joyce, Yeats and Beckett. (6 credits)

ENGLISH C357
The English Novel From Defoe to Dickens

A study of the origins and early development of the English novel, including such forms as the epistolary, the picaresque, the Gothic and historical novel, and such major writers as Fielding, Richardson, Sterne, Austen, Scott, the Brontes, George Eliot and Thackeray. (6 credits)

ENGLISH C358
The English Novel from Dickens to Conrad

A study of the later Victorian and Edwardian novel, including such writers as Trollope, Meredith, Butler, Hardy, James, Wells, Galsworthy, Bennett and Forster. (6 credits)

ENGLISH C360
Introduction to American Studies

An interdisciplinary consideration of the elements that go toward making up the "American Character" and the nature of art and culture in America: studies in literature, history, sociology, psychology, religion and fine arts. (6 credits)

ENGLISH C362
American Writers of the '20s

A study of the American expatriate generation of the 1920s, with particular emphasis on Fitzgerald, Hemingway, Gertrude Stein and their relationships with the cultural and artistic milieu centered in Paris. (6 credits)

ENGLISH C363
Modern American Fiction

The twentieth century American novel up to 1945. Authors such as Norris, Dreiser, Fitzgerald, Hemingway, Faulkner, West, Henry Roth and Wright will be read. (3 credits)

ENGLISH C364
Contemporary American Fiction

The twentieth century American novel since 1945. Authors such as Mailer, F. O'Connor, Styron, Bellow, Updike and Pynchon will be read. (3 credits)

ENGLISH C367
American Poetry

A study of the theory and practice of the major American poets since the mid-19th century. Particular emphasis will be placed on important figures such as Whitman, Dickinson, Robinson, Frost, Cummings, Williams, Stevens, Pound, Crane, and Eliot, with some attention to developments in contemporary poetry as well. (3 credits)

ENGLISH C369
American Drama

A study of the plays of major American dramatists such as O'Neill, Williams, Miller, Albee and Amamu Amiri Baraka (Leroi Jones). (3 credits)

ENGLISH C376
Canadian Literature from the 1820's to the 1930's

A study of prose, poetry and drama, principally written in English, including such writers as McCulloch, De Mille, Kirby, Lampman, Roberts, Pratt, Grove and Stead. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

ENGLISH C377
Modern Canadian Literature

A study of prose, poetry and drama, principally written in English from the 1930's to the present, including such writers as Laurence, MacLennan, Richler, Lowry, Klein, Callaghan, Layton, Livesay, Birney, Avison, Reaney, Nowlan and Ryga. (6 credits)
NOTE: This course may be taken for credit in the Canadian Studies programme.

ENGLISH C378
Canadian Criticism, Thought and Controversy

Prerequisite: Six credits in Canadian literature. An examination of the origins of literary criticism in Canada and the main aspects of its development to the present. The following critics will be considered: E. K. Brown, Edmund Wilson, H. A. Innis, G. Grant, Northrop Frye, Marshall McLuhan, Milton Atwood. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies programme.

ENGLISH C379
Canadian Drama

Through readings in drama, this course will examine themes and styles in Canadian literature. (3 credits)
NOTE: This course may be taken for credits in the Canadian Studies programme.

ENGLISH C386
Literature, Ideology and Society

Prerequisite: Second-year standing. Studies in the relations between literature and its social, cultural and political environment. The content of this course may vary from year to year and may include such topics as the relations between modern Anglo-Irish literature and the Irish nationalist movement; social change and the evolution of forms of characterization in fiction; and theory and practice of the avant-garde; or confessional modes in literature in relation to social and political messianism. (6 credits) *NOTE A/See § 200.1*

ENGLISH C390
Modern Poetry

An examination of the characteristic elements of twentieth-century poetry, in the context of a study of such major poets as Yeats, Eliot, Pound, Stevens and Auden. (6 credits).

ENGLISH C392
Modern Drama

A study of the main currents in Western drama since Ibsen. This course will include such representative playwrights as Chekhov, Lorca, Strindberg, Pirandello, O'Neill, Brecht, Pinter, Beckett and Weiss. (6 credits)

ENGLISH C393
History and Structure of the English Language

The course deals with the linguistic and historic development of the English language. The influence of language changes upon the literature will also be considered. (3 credits)

ENGLISH C394
English Prose Style

This course is designed to introduce students to the experience and assessment of the subtleties and varieties of prose style within the English tradition. It will include selections from the works of distinguished prose stylists. (3 credits)

ENGLISH C395
Science Fiction

An exploration of the varieties and nature of science fiction from H. G. Wells to Ursula LeGuin. Readings will include examples of English and American science fiction and translations of foreign works. Among the authors studied will be Huxley, Orwell, Zamyatin, Jack London, Capek, Borges, Calvino, and Lem. (6 credits)

ENGLISH C396
Advanced Composition

Prerequisite: ENGL C211 or C212 and C213 or permission of the Department. This course is designed for students already in control of the basic techniques of composition who wish to perfect their ability to write clearly and effectively for business and professional purposes. (6 credits)

ENGLISH C398
Non-Fiction Writing

Prerequisite: English C211 or C212 and C213 or permission of the Department. This course is designed for students already in control of the basic techniques of composition who wish to further develop their ability in writing in a variety of genres, including feature articles, new stories, biographies, reports and reviews. The students' work is given analysis and evaluation by the instructor and by fellow classmates in a workshop setting. (6 credits)

ENGLISH C411
Script Writing for Radio, Screen & Television

Prerequisite: ENGL C225, C226, C227 or permission of the Department. A workshop for the composition and development of creative scripts for radio, screen and television. In any one year the course may concentrate on one or two of these areas. (6 credits)

ENGLISH C412
Writing of Children's Literature

Prerequisite: ENGL C225, C226, C227 or permission of the Department. A workshop in the writing of prose, poetry and drama for children. This course will involve an exploration of the literary techniques appropriate to the sensibilities of children and their world. (6 credits)

ENGLISH C413
Editing, Publishing & Creative Research

Prerequisite: Permission of the Department. This course deals with such areas as magazines, small presses and anthologies that stimulate and promote literary activity. Emphasis will also be given to the research problems peculiar to the creative writer. (6 credits)

ENGLISH C425
Advanced Creative Writing: Poetry

Prerequisite: English C225 or approved work. A workshop in the writing of poetry. The students are expected to enter this course with competence in the fundamentals of the form, and to go on, by experimenting more fully with its material and techniques, to demonstrate their further progress in the craft. (6 credits) *NOTE A/See § 200.1*

ENGLISH C426
Advanced Creative Writing: Prose

Prerequisite: English C226 or approved work. A workshop in the writing of fiction. The students are expected to enter this course with competence in the fundamentals of the form, and to go on, by experimenting more fully with its materials and techniques, to demonstrate their further progress in the craft. (6 credits) *NOTE A/See § 200.1*

ENGLISH C427
Advanced Creative Writing: Drama

Prerequisite: English C227 or approved work. A workshop in the writing of plays. The students are expected to enter this course with competence in the fundamentals of the form, and to go on, by experimenting more fully with its materials and techniques to demonstrate their further progress in the craft. (6 credits) *NOTE A/See § 200.1*

ENGLISH C430
Old English

A study of the language and literature of the Anglo-Saxon era, chiefly of the *Beowulf* epic. (6 credits)

ENGLISH C434
Special Studies in Shakespeare

Prerequisite: English C320. An exploration in depth of individual plays and poems by Shakespeare, as well as particular problems presented by them. The topic considered in any one year might be "the Problem Plays", "the Romances", Mask and Disguise", or "the Shakespeare play as Satire". (3 credits)

ENGLISH C438
The Rise of Prose Fiction

The course will explore the origin and development of European fiction in major works of the Middle Ages and the Renaissance, giving particular attention to their varying sources of inspiration, the narrative techniques they evolve and the basic genres they establish. Works such as the romances of Chretien de Troyes, the anonymous *Quest for the Holy Grail,* Boccaccio's *Decameron,* Malory's *Morte Darthur,* and Cervante's *Don Quixote,* will be studied. (6 credits)

ENGLISH C440
The Literatures of Canada and the United States

Prerequisite: Six credits in Canadian or American literature. It would be to the student's advantage to enter this course with knowledge of both literatures. Studies in common and contrasting problems in the two national literatures. (6 credits)

ENGLISH C442
World Literatures Written in English

Prerequisite: Second-year standing. Studies of works in English from selected areas such as the Caribbean, New Zealand, Australia, Asia and Africa, by such writers as Naipaul, Walcott, Ashton-Warner, White, Narayan, Paton, Lessing and Achebe. (3 credits)

ENGLISH C443
World Literatures Written in English

A student repeating English C442 for credits registers under English C443. (3 credits)

ENGLISH C444
Special Studies in American Literature I

Prerequisite: English C300 or C301 and C302. The topics considered will vary from year to year, and may include American fiction, American poetry or American drama. (3 credits)

ENGLISH C445
Special Studies in American Literature II

Prerequisite: English C300 or C301 and C302. As in English C444, the topics will vary annually. (3 credits)

ENGLISH C448
Special Studies in Canadian Literature

Prerequisite: Six credits in Canadian literature. An intensive study of a limited aspect of Canadian literature which may deal, from year to year, with an individual author or work, or a particular problem, such as "Regionalism and the Diction of Canadian Poetry", "Prairie Fiction" or "Canadian Drama". (3 credits)
NOTE: This course may be taken for credits in the Canadian Studies programme.

ENGLISH C449
Special Studies in Canadian Literature

A student repeating English C448 for credits registers under English C449. (3 credits)
NOTE A/See § 200.1
NOTE: This course may be taken for credits in the Canadian Studies Programme.

ENGLISH C456
Special Studies in Modern Fiction

Prerequisite: Six credits in modern fiction. A detailed study of an individual author or work of fiction, or a specific problem in modern literature. (3 credits)

ENGLISH C457
Special Studies in Modern Fiction

A student repeating English C456 for credits registers under English C457. (3 credits)
NOTE A/See § 200.1

ENGLISH C459
Contemporary Literature

Prerequisite: Six credits in Modern Literature. A study of poetry, prose fiction and drama, written in or translated into English since the Second World War. This course is intended for the student whose exploration of modern literature has already suggested to him something of the radical experimentation in form which characterized contemporary literature. (6 credits)

ENGLISH C462
The Aesthetic and Religious Experience in Literature

Prerequisite: Second-year standing. An interdisciplinary course which explores the relationships between literature and religion through practical criticism, literary theory, aesthetics and theology. (6 credits)

ENGLISH C464
Special Studies in Children's Literature

Prerequisite: A previous course in Children's Literature. A course devoted to a special topic or particular author in Children's Literature. The topic or author will vary from year to year. (3 credits)

ENGLISH C468
Special Studies in Drama

Prerequisite: One previous course in drama. This course will study different kinds and periods of drama each year. (3 credits)

ENGLISH C475
Patterns of English Speech

The course will examine the relationship between spoken and written English from a variety of points of view: linguistic, semantic, philosophical, literary. The course will emphasize oral English and will include such topics as phonology, intonational patterns, dialect, slang. (3 credits)

ENGLISH C477
Advanced Stylistics

On the basis of the linguistic study in English C475, this course will examine sentence structures, paragraph formation, tone, diction, argumentation. (3 credits)

ENGLISH C479
Special Studies in English Literature

Prerequisite: A period course in the area involved. A course devoted to a special topic or particular author in English literature. The topic or author will vary from year to year. (3 credits)

ENGLISH C484
Theories and Criticism of Literature

Prerequisite: 6 credits in Literature. This course explores problems in criticism and theoretical approaches to literary art and experience from antiquity to the present, including such problems as symbol and metaphor, instruction and delight, mimesis and catharsis, form and inspiration, audience and social value, convention and genius. (6 credits)

ENGLISH C490
Joint Tutorial in History and English

A tutorial for students in the English and History Joint Honours Programme. (6 credits)

ENGLISH C491
Joint Tutorial in Modern Languages and English

A tutorial for students in the English and Modern Languages Joint Honours Programme. (6 credits)

ENGLISH C492
Seminar in a Special Subject

Prerequisite: Second-year standing. This course is designed to provide an opportunity for study and discussion of literature at a relatively advanced level. It is taught, from year to year, by different members of the English Department, and the subject changes to accord with the special interests of each instructor. (6 credits) *NOTE C/See § 200.1*

ENGLISH C493
Seminar in a Special Subject

A student repeating English C492 for credits registers under English C493. (6 credits) *NOTE A/See § 200.1*

ENGLISH C494
Seminar in a Special Subject

Prerequisite: Second-year standing. This course is designed to provide an opportunity for study and discussion of literature at a relatively advanced level. It is taught, from year to year, by different members of the English Department and the subject changes in accord with the special interests of each instructor. (3 credits)

ENGLISH C495
Seminar in a Special Subject

A student repeating English C494 for credits registers under English C495. (3 credits)

ENGLISH C496
Advanced Research and Thesis

A small number of seminars or tutorials on special themes and topics, to vary each year. Registration limited to Honours students in their final year. All students must consult with the Department in advance. (6 credits)

ENGLISH C497
Independent Studies

A tutorial programme arranged with a member of the Department (3 credits)

ENGLISH C498
Independent Studies

A tutorial programme arranged with a member of the Department. (6 credits)

ENGLISH C499
Honours Essay

Prerequisite: Open to third-year Honours students. Under the supervision of a faculty member, students will write a scholarly critical essay to some 7,500 to 10,000 words. (3 credits)

31.14 French

Chairman
P. L'HERAULT, *Associate Professor*

Professors
P. D'HOLLANDER
G. LABBE
G. LAURION
A. LAUZIERE
G. TAGGART

Professor in the Conservatory of Cinematographic Art, Sir George Williams Campus
S. LOSIQUE

Associate Professors
G. CHARPENTIER
M. EUVRARD
A. JORDAN
C. LEVY
D. LEVY
P. PARC
J. SCHNEIDER
L. SUGDEN
M. VERTHUY

Assistant Professors
M. CATRY-VERRON
P. L'HERAULT
M. F. LIGIER
O. RIGAULT
M. TIFFOU
N. TRUCHON
L. VAN TOCH

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

72 BA Joint Honours in French and History

30 French Credits:
- 6 Chosen from FRAN C270^3, C271^3, C320^6, C321^3, C322^3
- 6 FRAN C251^6
- 6 18th Century French Literature
- 6 19th Century French Literature
- 6 20th Century French Literature

30 History credits:
- 18 HIST C209^3, C210^3, C329^6, C344^6
- 12 Chosen from HIST C431^6, C432^6, C432^6, C433^6
- 6 Elective credits in French or History
- 6 HIST C496^6 or FRAN C498^6

72 BA Joint Honours in one of the Modern Languages and in French (Loyola)*

- 6 Chosen from FRAN C270^3, C271^3, C320^6, C321^3, C322^3
- 6 FRAN C251^6
- 18 Credits chosen in consultation with the French Department
- 6 FRAN C498^6
- 36 Modern Languages: These 36 credits are to be chosen in German, Italian or Spanish in consultation with the Department of Modern Languages and Linguistics. Literature courses will be chosen to parallel as much as possible the choice in French courses.

**NOTE: Sequences of courses to be determined in consultation with the Departments concerned.*

72 BA Joint Honours in English and French

- 6 ENGL credits chosen from courses C256 through C284
- 6 ENGL credits chosen from courses C286 through C305; C376^6, C377^6, C390^6, C392^6
- 6 ENGL C310^6, C311^3, C312^3, C320^6, C328^3, C329^3, C330^6
- 12 ENGL credits chosen by genre or periods to parallel choice in French courses to be chosen in consultation with the departments
- 18 FRAN C251^6, C270^3, C271^3, C320^6 or C321^3, and C322^3, C324^6
- 12 FRAN credits chosen by genre or periods to parallel choice in English courses to be chosen in consultation with the departments
- 6 Elective credits in English or French, outside the parallel periods or genre chosen
- 6 ENGL C499^6 or FRAN C498^6*

**NOTE: Students intending to take FRAN C498^6 should note that it has a 400-level prerequisite. 6 of the 12 FRAN elective credits should therefore be chosen at the 400-level.*

63 BA Honours in French Literature

- 12 Credits chosen from FRAN C270^3, C271^3, C320^6, C321^3, C322^3, C324^6, C370^3, C371^3, C372^3
- 9 Quebec Literature
- 9 Middle Ages to 16th Century literature
- 9 17th to 18th Century literature
- 9 19th to 20th Century literature
- 6 FRAN C498^6
- 9 Credits chosen from FRAN C262^6, C366^3, C367^3, C368^3, C369^3, C381^3, C382^3, C461^6, C469^3

Other courses in literature may be chosen in consultation with the Department.

53 BA Specialization in French Literature

12 Chosen from FRAN C270[3], C271[3], C320[6], C321[3], C322[3], C324[6], C370[3], C371[3], C372[3]
9 Quebec Literature
9 Middle Ages to 16th Century Literature
9 17th to 18th Century Literature
9 19th to 20th Century Literature
6 FRAN C498[6]
9 Chosen from FRAN C262[6], C366[3], C367[3], C368[3], C369[3], C381[3], C382[3], C461[6], C469[3]
Other courses in literature may be chosen in consultation with the Department

42 BA Major in French Literature

6 FRAN C324[6]
6 FRAN C251[6]
6 Chosen from FRAN C270[3], C320[6] or C321[3] and C322[3], C370[3], C371[3], C372[3], C480[3], C481[3], C482[3], C483[3]
24 Elective credits in literature

24 Minor in Literature

24 Elective credits in French or Quebec Literature chosen in consultation with the Department.

60 BA Honours in Quebec Literature

6 FRAN C251[6]
3 FRAN C322[3] or C271[3]
18 Chosen from FRAN C350[3], C351[3], C352[3], C353[3], C354[3], C355[3], C356[3], C357[3], C358[3]
18 Chosen from FRAN C450[3], C451[3], C452[3], C453[3], C454[3], C455[3], C456[3], C457[3], C458[3], C459[3]
6 FRAN C498[6]
9 Elective credits in literature chosen in consultation with the Department

60 BA Specialization in Quebec Literature

6 FRAN C251[6]
3 FRAN C322[3] or C271[3]
18 Chosen from FRAN C350[3], C351[3], C352[3], C353[3], C354[3], C355[3], C356[3], C357[3], C358[3]
18 Chosen from FRAN C450[3], C451[3], C452[3], C453[3], C454[3], C455[3], C456[3], C457[3], C458[3], C459[3]
6 FRAN C498[6]
9 Elective credits in literature chosen in consultation with the Department

42 BA Major in Quebec Literature

6 FRAN C324[6]
6 FRAN C251[6]
6 Chosen from FRAN C270[3], C271[3], C320[6], C321[3], C322[3]
18 Chosen from FRAN C350[3], C351[3], C352[3], C353[3], C354[3], C355[3], C356[3], C357[3], C358[3]
6 Chosen from FRAN C450[3], C451[3], C452[3], C453[3], C454[3], C455[3], C456[3], C457[3], C458[3], C459[3]

72 BA Specialization in French/English Translation

Year I
6 FRAN C400[3] and C401[3], or C404[3] and C405[3] or C406[3] and C407[3]
6 Chosen from ENGL C211[6], C398[6]
6 Chosen from FRAN C250[3], C251[6], C455[3], C456[3]
6 FRAN C260[3], C261[3]
Year 2
18 FRAN C360[3], C361[3], C362[3], C363[3], C364[3], C365[3]
6 Linguistics in consultation with the Department
6 Elective credits in consultation with the Department
Year 3
12 FRAN C460[3], C461[3], C462[3], C463[3]
6 Elective credits in consultation with the Department

42 BA Major in the French Language

30 An approved sequence of language courses commencing at a level not lower than FRAN C204 (langue française niveau intermédiaire I).
Students must have written approval from the Department for their programme prior to registration.
6 credits in French literature
6 credits in linguistics or translation

24 Minor in the French Language

24 An approved sequence of language courses commencing at a level not lower than FRAN C204 (langue française niveau intermédiaire I)
Students must have written approval from the Department for their programme prior to registration.

30 Certificate in the French Language

30 An approved sequence of courses commencing at a level not lower than FRAN C202 (langue française niveau transition I)
Students must have written approval from the Department for their programme prior to registration.

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

Les cours du département ayant reçu de nouveaux numéros, les étudiants trouveront une liste d'équivalences à la section 200.

FRANÇAIS C200
French Language: Elementary I

This course is intended for students having no previous training in French. It includes a comprehensive introduction to the basic structures and vocabulary of French and should enable students to acquire an ability to speak and understand simple conversational French. Both oral and written aspects of the language are presented with special emphasis on oral skills. Laboratory sessions are included. (3 credits)

FRANÇAIS C201
French Language: Elementary II

Prélable: French C200. Continuation of the previous course. (3 credits)

FRANÇAIS C202
Langue Française: Niveau de Transition I

Préalable: Français C201 ou équivalent. Ce cours s'adresse à des étudiants ayant suivi soit un an de français à l'université ou au niveau collégial, soit deux ans de français à l'école secondaire, ou équivalent. Ce cours permet aux étudiants d'accéder à un niveau de compréhension et d'expression suffisant pour communiquer en français avec une certaine confiance. Par l'utilisation de techniques de conversation dirigée et de travail systématique en classe et au laboratoire, les étudiants acquerront un répertoire de structures et de vocabulaire plus élaboré. Séances de laboratoire. (3 crédits)

FRANÇAIS C203
Langue Française: Niveau de Transition II

Préalable: Français C202 ou équivalent. Suite du cours précédent. (3 crédits)

FRANÇAIS C204
Langue Française: Niveau Intermédiaire I

Préalable: Français C203 ou équivalent Ce cours s'adresse à des étudiants ayant suivi soit 4 ans de français à l'école secondaire, soit 2 ans de français à l'université, ou au niveau collégial, ou équivalent. Par une étude et une pratique intensive des tournures du français courant, l'étudiant pourra acquérir l'aisance nécessaire à une communication spontanée. Le cours fournira également quelques aperçus sur le mode de vie des francophones. (3 crédits)

FRANÇAIS C205
Langue Française: Niveau Intermédiaire II

Préalable: Français C204 ou équivalent. Suite du cours précédent. (3 crédits)

FRANÇAIS C220
Littérature Moderne

Préalable: Français C203 ou équivalent. Au moyen d'un choix de nouvelles, romans, pièces de théâtre et poèmes de la francophonie, l'étudiant apprendra à "lire", et à apprécier les caractéristiques des différents genres. (6 crédits)

FRANÇAIS C250
Littérature Québecoise en Traduction

Etude de la littérature québécoise en traduction surtout du point de vue de l'écriture (vocabulaire, style, images, etc.). Etude de textes sur le plan thématique, linguistique, stylistique et structural. Analyses des meilleures traductions disponibles. Travaux pratiques en traduction, compositions, recherches.
Textes: Bessette, *Le libraire;* Blais, *La Belle Bête;* Thériault, *Agaguk;* Hébert, *Kamouraska,* etc. (3 crédits)

Ce cours n'est pas crédité dans les programmes de mineure, de majeure, de BA spécialisé et d'honneurs en littérature québécoise.

FRANÇAIS C251
Culture et Civilisation Québécoises

Préalable: Français C203 ou équivalent. La culture et la civilisation québécoises vues à travers une de leurs expressions particulières: la littérature. Etude des grandes étapes de la production littéraire avec, comme toile de fond, un aperçu général de l'histoire politique, économique, sociale, culturelle du Québec. Etude des principaux courants de pensée dans le Québec d'hier et d'aujourd'hui: l'expression littéraire comme reflet du mouvement de libération et du processus de décolonisation québécois. Ce cours vise en outre à ce que les étudiants entrent en contact avec diverses manifestations culturelles québécoises: théâtre, chanson, cinéma, etc. (6 crédits)

FRANÇAIS C260
Stylistique Comparée du Français et de l'anglais

Préalable: Français C307 ou équivalent. Le cours a pour but d'étudier les ressources stylistiques du français par rapport à celles de l'anglais. Le passage entre les deux langues est étudié en fonction des terdances particulières à chaque langue, tant du point de vue grammatical et lexical que du point de vue du contexte culturel. (3 crédits)

FRANÇAIS C261
Initiation à la Traduction

Préalable: Français C301 ou équivalent. Traduction de textes vers l'anglais et vers le français, avec étude des problèmes typiques soulevés par le passage d'une langue à l'autre. (3 crédits)

FRANÇAIS C262
Introduction à la Linguistique Française

Préalable: autorisation du département. Introduction à l'analyse descriptive de la structure linguistique du français contemporain. Aperçus des aspects phonémiques, morphosyntaxiques et lexicaux de la langue considérée comme un système. Applications théoriques et pratiques. (6 crédits)

FRANÇAIS C264
Phonétique I

Préalable: Français C301 ou autorisation du département. Etude systématique des habitudes articulatoires du français en comparaison avec celles de l'anglais. Introduction aux principes de l'analyse phonologique: groupes consonantiques possibles ou impossibles dans les deux langues. Etude de l'aspect physiologique de la parole; propriétés des voyelles et des consonnes en français. Etude des phénomènes prosodiques; intonation, rythme, accent. Aperçu de la phonétique acoustique et expérimentale. (3 crédits)

FRANÇAIS C265
Phonétique II

Préalable: Français C264. Séminaire de recherche expérimentale. Initiation à l'utilisation des instruments de recherche. Etude détaillée de segments linguistiques du point de vue du timbre des voyelles, de l'articulation des consonnes et des faits prosodiques (accent, rythme, intonation). Etude expérimentale de problèmes relevant de la comparaison des systèmes phonétiques du français et de l'anglais. (3 crédits)

FRANÇAIS C270
Introduction à l'Histoire de la Culture et de la Civilisation Françaises I

Préalable: Français C203 ou équivalent. Abondamment illustré de projections, ce cours a pour but essentiel d'amener les étudiants à replacer la littérature dans son contexte historique, social, politique et artistique. (3 crédits)

FRANÇAIS C271
Introduction à l'Histoire de la Culture et de la Civilisation Françaises II

Préalable: Français C270 ou autorisation du department. Suite chronologique du cours C270. (3 crédits)

FRANÇAIS C300
Niveau de Transition III: L'Art de Vivre au Québec I

Préalable: Français C203 ou équivalent. Cours intensif qui a pour but principal de permettre à l'étudiant de niveau intermédiaire de s'intégrer au milieu québécois, au moyen de discussions et d'activités dirigées par un professeur et animées par des moniteurs-étudiants francophones. Pratique systématique du français en classe. Participation en petits groupes à des activités culturelles dépassant le cadre scolaire. (6 crédits)

FRANÇAIS C301
Niveau de Transition IV: L'Art de Vivre au Québec II

Préalable: Français C300 ou équivalent. Suite du cours précédent. (6 crédits)

FRANÇAIS C302
Langue Française: Niveau d'Approfondissement I

Préalable: Français C205 ou équivalent. Le cours d'approfondissement est destiné à des étudiants qui possèdent déjà une bonne connaissance du français et qui ont besoin d'améliorer leur expression écrite et orale par une étude approfondie et une révision systématique de la grammaire. On attachera une importance accrue à l'acquisition d'une expression écrite précise et correcte. (3 crédits)

FRANÇAIS C303
Langue Française: Niveau d'Approfondissement II

Préalable: Français 302 ou équivalent. Suite du cours Français C302. (3 crédits)

FRANÇAIS C304
Le Code Oral I

Préalable: Français C301 ou équivalent. Ce cours permettra à l'étudiant de se sentir à l'aise devant les diverses formes de la langue parlée. Etude des marques phonolgiques, lexicales et morpho-syntaxiques propres à la langue orale. Initiation à l'identification des niveaux de langue du français parlé et aux variantes nationales et régionales par des exercices de compréhension et d'expression. (3 crédits)

FRANÇAIS C305
Le Code Oral II

Préalable: Français C304 ou équivalent. Suite du cours Français C304. (3 crédits)

FRANÇAIS C306
Le Code Ecrit I

Préalable: Français C305 ou équivalent. Ce cours permettra à l'étudiant de distinguer les marques caractéristiques du style écrit de celles de la langue parlée. Au niveau lexical, morphosyntaxique et stylistique, des exercices appropriés permettront à l'étudiant de mettre en pratique les connaissances acquises. (3 crédits)

FRANÇAIS C307
Le Code Ecrit II

Préalable: Français C306 ou équivalent. Suite du cours Français C306. (3 crédits)

FRANÇAIS C308
Le Français des Sciences de la Santé I

Préalable: Français 301 ou équivalent. Cours destiné aux étudiants qui travaillent dans le domaine de la santé publique ou qui se préparent à une carrière dans ce domaine. Le cours permet à l'étudiant d'accéder à un corpus de vocabulaire, de structures et de niveaux de langue choisi en fonction des situations de communication dans une clinique, un hôpital, un centre de santé communautaire, etc. Par la pratique en situation ou à partir de documents authentiques et par une recherche individuelle l'étudiant apprendra à communiquer dans son milieu de travail. (3 crédits)

FRANÇAIS C309
Le Français des Sciences de la Santé II

Préalable: Français C301 ou C308 ou équivalent. Suite du cours C308. (3 crédits)

FRANÇAIS C310
Le Français de la Récréologie, de l'Education Physique et des Sports. I

Préalable: Français C301 ou équivalent. Cours destiné aux étudiants qui travaillent déjà ou se préparent à œuvrer dans le domaine de la récréologie et des sports. Les thèmes étudiés comprennent le conditionnement physique, le rôle du sport dans la société, le reportage sportif, l'organisation des loisirs dans la ville et dans la nature, etc. L'acquisition du vocabulaire, des structures et des niveaux de langue choisis en fonction de ces thèmes se fera en situations de travail simulées, par la pratique et la discussion à partir de documents authentiques et par une recherche individuelle. (3 crédits)

FRANÇAIS C311
Le Français de la Récréologie, de l'Education Physique et des Sports. II

Préalable: Français C301 ou C310 ou équivalent. Suite du cours Français C310. (3 crédits)

FRANÇAIS C312
Le Français des Sciences Sociales I

Préalable: Français C301 ou équivalent. Ce cours s'adresse aux étudiants qui désirent participer activement en français à la vie politique et aux activités communautaires du Québec d'aujourd'hui. Les thèmes étudiés incluent les organismes politiques, gouvernementaux et syndicaux et leurs rôles respectifs, ainsi que les questions d'actualité sociale concernant la femme, la famille, etc. Par des lectures et recherches individuelles, discussions, débats et simulation de situations authentiques, les étudiants pourront acquérir la compétence langagière nécessaire pour jouer un rôle actif dans la société qui les entoure. (3 crédits)

FRANÇAIS C313
Le Français des Sciences Sociales II

Préalable: Français C301 ou C312 ou équivalent. Suite du cours Français C312. (3 crédits)

FRANÇAIS C314
Le Français de l'Industrie I

Préalable: Français C301 ou équivalent. Le cours s'adresse à ceux qui, dans les entreprises, œuvrent dans le domaine de la production, ou qui se préparent à une carrière dans ce domaine. Les thèmes étudiés comprennent l'organisation d'une entreprise, les relations de travail, les étapes de la fabrication, les structures et les niveaux de langue en fonction des situations de travail. En plus, chaque étudiant devra faire une recherche individuelle sur le vocabulaire qui se rapporte à son propre milieu et à sa situation. (3 crédits)

FRANÇAIS C315
Le Français de l'Industrie II

Préalable: Français C301 ou C314 ou équivalent. Suite du cours C314. (3 crédits)

FRANÇAIS C316
Le Français de la Bibliothéconomie I

Préalable: Français C301 ou équivalent. Le cours est destiné aux étudiants qui travaillent ou se préparent à travailler dans les divers services des bibliothèques et des centres de ressources tels que le service du prêt, des acquisitions, du catalogue, etc. On étudie le vocabulaire et les structures nécessaires pour communiquer en français avec les usagers et pour échanger des renseignements en code oral ou écrit avec d'autres bibliothécaires, maisons d'édition, etc. On simulera des situations de travail et chaque étudiant devra faire une recherche personnelle se rapportant à ses intérêts individuels. (3 crédits)

FRANÇAIS C317
Le Français de la Bibliothéconomie II

Préalable: Français C301 ou C316 ou équivalent. Suite du cours C316. (3 crédits)

FRANÇAIS C318
Le Français Commercial I

Préalable: Français C301 ou équivalent. Le cours vise à faciliter la communication efficace orale et écrite dans le domaine des affaires. Il comprend une révision des structures, mais l'effort principal porte sur l'acquisition des termes et tournures de la langue du commerce, de la banque et des affaires. On s'efforce d'enseigner ces termes en simulation de situations réelles, par ex.: au téléphone, entrevues, réunions, rédaction administrative et commerciale. On encourage les étudiants à entreprendre un projet individuel pour approfondir le vocabulaire de leur domaine particulier. (3 crédits)

FRANÇAIS C319
Le Français Commercial II

Préalable: Français C301 ou C318 ou équivalent. Suite du cours C318. (3 crédits)

FRANÇAIS C320
Panorama de la Littérature Française

Préalable: Français C203 ou équivalent. Ce cours, qui traite de la littérature française des origines à nos jours, s'adresse aux étudiants qui ont choisi la littérature comme domaine de spécialisation principale ou secondaire. (6 crédits)
Note: Les étudiants qui ont suivi Français C321 et/ou C322 ne peuvent obtenir de crédits pour ce cours.

FRANÇAIS C321
Panorama de la Littérature Française I

Préalable: Français C203 ou équivalent Ce cours, qui traite de la littérature française des origines à la fin du règne de Louis XIV s'adresse aux étudiants qui ont choisi la littérature comme domaine de spécialisation principale ou secondaire. (3 crédits)
Note: Les étudiants qui ont suivi C320 ne peuvent obtenir de crédits pour ce cours.

FRANÇAIS C322
Panorama de la Littérature Française II

Préalable: Français C321 ou autorisation du département. Ce cours complète le cours C321 par une étude de la littérature française, de la Régence à nos jours. (3 crédits)
Note: Les étudiants qui ont suivi C320 ne peuvent obtenir de crédits pour ce cours.

FRANÇAIS C324
Initiation à la Composition Avancée

Préalable: Français C301 ou équivalent. Révision de la grammaire. Techniques de mise en œuvre des moyens d'expression écrite et orale. Etude des différentes méthodes d'analyse et de composition, y compris la dissertation. Méthodologie de la présentation des travaux. (6 crédits)

FRANÇAIS C350
Les Origines de la Littérature Québécoise

Préalable: Français C251. D'une littérature coloniale à une littérature autochtone. De la tradition orale à l'écriture. Etude de textes écrits avant l'Ecole patriotique de Québec. (3 crédits)

FRANÇAIS C351
La Littérature Québécoise du 19ème Siècle

Préalable: Français C251. Etude des grands mouvements littéraires du 19ème siècle et des principaux genres illustrés (conte, histoire, roman, essai, prose militante, etc.) (3 crédits)

FRANÇAIS C352
Le Roman Québécois du 20ème Siècle I

Préalable: Français C251. Le roman québécois traditionnel: le roman de la fidélité, le roman d'observation, le roman de la solitude, le roman de la critique et de la satire. Etude de textes significatifs des romanciers et des romancières les plus marquants tels que: Hémon, Desrosiers, Grignon, Harvey, Savard, Ringuet, Guèvremont, Roy, Thériault, Langevin. Charbonneau, etc. (3 crédits)

FRANÇAIS C353
Le Roman Québécois du 20ème Siècle II

Préalable: Français C251. Le roman de revendication sociale et le nouveau roman. Etude de textes significatifs des romanciers et des romancières les plus marquants tels que: Girouard, Renaud, Major, Blais, Ferron, Godbout, Jasmin, Bessette, Aquin, Ducharme, Beaulieu, Hébert, Larocque, Bersianik, etc. (3 crédits)

FRANÇAIS C354
La Poésie Québécoise du 20ème Siècle I

Préalable: Français C251. De l'Ecole littéraire de Montréal à l'automatisme. Etude de textes significatifs des poètes les plus marquants: Nelligan, Loranger, Beauchemin, Desrochers, Coderre, Hébert, Saint-Denys Garneau, Grandbois, Lasnier, etc. (3 crédits)

FRANÇAIS C355
La Poésie Québécoise du 20ème Siècle II

Préalable: Français C251. De l'automatisme à aujourd'hui: mouvements et formes poétiques. Etude de textes significatifs des poètes les plus marquants: Gauvreau, Hénault, Giguère, P.-M. Lapointe, Miron, Chamberland, R. Duguay, Garneau, Vanier, Francœur, etc. (3 crédits)

FRANÇAIS C356
Le Théâtre Québécois I

Préalable: Français C251. L'évolution du théâtre jusqu'à Marcel Dubé. Aperçu historique, thématique et formel. Le théâtre historique, patriotique, comique, le mélodrame, le drame bourgeois. Formation des troupes québécoises. Etude de textes, avec une attention particulière portée au théâtre de Gélinas, Dubé, Hébert, Savard, etc. (3 crédits)

FRANÇAIS C357
Le Théâtre Québécois II

Préalable: Français C251. Le nouveau théâtre québécois: théâtre social et politique, théâtre expérimental, théâtre d'improvisation, recherches de nouvelles formes théâtrales. Etudes de textes: Tremblay, Germain, Sauvageau, Loranger, Barbeau, Garneau, le Grand-cirque ordinaire, etc. En plus d'avoir recours aux textes publiés, ce cours s'appuiera d'une façon particulière sur la production courante du théâtre à Montréal. (3 crédits)

FRANÇAIS C358
L'essai et le Développement de la Pensée Québécoise

Préalable: Français C251. Etude des grands thèmes et de l'évolution des formes de la pénsée québécoise à travers l'essai. Textes de: Buies, Nevers, LeMoyne, Vadeboncœur, Dumont, Vallières, Rioux, Bouthillette, etc. (3 crédits)

FRANÇAIS C360
Traduction Littéraire du Français à l'Anglais

Préalable: Français C261. Traduction de textes français choisis par le professeur. (3 crédits)

FRANÇAIS C361
Traduction Littéraire de l'Anglais au Français

Préalable: Français C261. Traduction de textes anglais choisis par le professeur. (3 crédits)

FRANÇAIS C362
Traduction Technique du Français à l'Anglais

Préalable: Français C261. Initiation aux différents domaines de la traduction technique. Le semestre sera réparti en quatre modules de trois semaines. Chaque module sera confié à un traducteur spécialisé dans un domaine particulier. (3 crédits)

FRANÇAIS C363
Traduction Technique de l'Anglais au Français

Préalable: Français C261. Initiation aux différents domaines de la traduction technique. Le semestre sera réparti en quatre modules de trois semaines. Chaque module sera confié à un traducteur spécialisé dans un domaine particulier. (3 crédits)

FRANÇAIS C364
Théories de la Traduction

Préalable: Français C360 ou C361. Ce cours abordera les différentes façons d'envisager la traduction, de l'adaptation à la traduction automatique. (3 crédits)

FRANÇAIS C365
Adaptation Publicitaire et Traduction Commerciale

Préalable: Français C260 ou autorisation du département. Initiation à l'adaptation en français ou en anglais de textes publicitaires. A partir d'exemples empruntés à la publicité écrite, radiophonique ou télévisée, les étudiants seront amenés à se familiariser avec les modifications linguistiques, affectives et sociales inhérentes au travail d'adaptation. (3 crédits)

FRANÇAIS C366
Stylistique Interne du Français I

Préalable: Français C262 ou autorisation du département. Analyse des ressources stylistiques du français: du mot au texte. Historique et théories contemporaines du style de l'analyse descriptive à la théorie des écarts. Etude des grands genres littéraires et de leur évolution. (3 crédits)

FRANÇAIS C367
Stylistique Interne du Français II

Préalable: Français C366. Suite du cours C366 et applications pratiques. (3 crédits)

FRANÇAIS C368
Histoire de la Langue Française I

Préalable: Français C301 ou équivalent. Ce cours retrace l'évolution de la langue, du latin vulgaire à François Villon. L'étudiant s'y familiarisera également, par des traductions d'œuvres littéraires de l'époque, à la lecture des textes en ancien français. (3 crédits)

FRANÇAIS C369
Histoire de la Langue Française II

Préalable: Français C368 ou autorisation du département. Ce cours retrace l'évolution de la langue, de la Renaissance au français contemporain. Les étapes successives de cette évolution sont illustrées par l'étude de textes appropriés. (3 crédits)

FRANÇAIS C370
Introduction au Genre Romanesque

Préalable: Français C203 ou équivalent. Le genre romanesque sera étudié dans une perspective spécifique qui pourra varier selon l'année et le professeur: théorie du roman, catégories de roman, sociologie du roman, étude d'un type particulier de roman. (3 crédits)

FRANÇAIS C371
Introduction à la Poésie

Préalable: Français C203 ou équivalent. Le vers français; les formes fixes, le vers libre, le poème en prose; les notions de poétique et d'art poétique. Esthétique de la poésie, esthétique de la prose et leurs interférences; étude historique. La poésie, discours social ou a-social? Les différents aspects de la question ou certains d'entre eux, seront étudiés, avec des exemples, dans une perspective qui pourra varier selon l'année et le professeur. (3 crédits)

FRANÇAIS C372
Introduction au Théâtre en Tant que Genre

Préalable: Français C203 ou équivalent. Ce cours permettra aux étudiants, à partir d'un petit nombre de textes, de voir les caractéristiques du théâtre en tant que genre, d'analyser sa fonction littéraire et sociale, d'étudier sa place particulière dans les différents mouvements littéraires en France. (3 crédits)

FRANÇAIS C373
Le Cinéma Français I

Préalable: Autorisation du département. Ce cours, abondamment illustré de films ou d'extraits de films, retrace en tout ou en partie, l'histoire du septième art dans ses manifestations les plus originales et les plus caractéristiques. (6 crédits)

FRANÇAIS C374
Le Cinema Français II

Les étudiants s'inscrivant pour la deuxième fois au cours de cinéma C373 obtiennent les crédits C374 (6 crédits)

FRANÇAIS C381
Principes de Linguistique Appliquée (Français, Langue Seconde) I

Préalable: autorisation du département. Analyse des problèmes théoriques de l'enseignement du français, langue seconde. Le mécanisme de l'interférence dans les domaines de la phonétique, de la morphologie et de la syntaxe est étudié ainsi que les questions d'ordre psychologique telles que la motivation et les "lois" de l'apprentissage. (3 crédits)

FRANÇAIS C382
Principes de Linguistique Appliquée (Français, Langue Seconde) II

Préalable: Français C381. Examen de diverses méthodes d'enseignement du français, langue seconde, avec démonstrations, classes modèles, etc. (3 crédits)

FRANÇAIS C383
Pédagogie de l'audio-visuel

Préalable: autorisation du département. Le cours s'adresse aux étudiants qui s'intéressent à l'usage des média dans l'enseignement. Au premier semestre, on étudiera les nouveaux rôles de l'enseignant face aux changements technologiques dans la société et à l'évolution des moyens de communication.

Le deuxième semestre sera consacré à l'étude pratique des techniques de présentation et de réalisation de documents audio-visuels à fins éducatives. Travaux pratiques aboutissant à l'élaboration en équipe d'un document audio-visuel destiné à l'enseignement du français langue seconde. (6 crédits)

FRANÇAIS C400
Langue Française: Niveau de Perfectionnement I

Préalable: Français 303 ou équivalent. Cours avancé de langue, axé sur l'étude de la grammaire et de la stylistique française, permettant à un étudiant qui possède déjà une connaissance approfondie de la langue de corriger ses lacunes, de nuancer son expression et d'explorer les possibilités créatrices du langage. Le cours débouchera sur une connaissance de base des civilisations et des cultures francophones. (3 crédits)

FRANÇAIS C401
Langue Française: Niveau de Perfectionnement II

Préalable: Français C400 ou équivalent. Suite du cours Français C400. (3 crédits)

FRANÇAIS C404
Le Code Oratoire I

Préalable: Français C303 ou équivalent. Correction phonétique, en particulier au niveau de la langue "soignée", techniques de présentation de la parole en public: pose de voix, gestes, affectivité, etc. Etude du vocabulaire et des procédures nécessaires pour convoquer une réunion, la diriger, y participer. Rédaction et présentation de divers types de rapports, allocutions et conférences. Séances de travaux pratiques en laboratoire, 1½h. par semaine. (3 crédits)

FRANÇAIS C405
Le Code Oratoire II

Préalable: Français C404 ou équivalent. Suite du cours Français C404. (3 crédits)

FRANÇAIS C406
Le Code Grammatical I

Préalable: Français C306 ou équivalent. Etude des règles fondamentales de la grammaire française à l'aide d'exercices d'analyse et de construction de phrases, ayant pour but la correction de l'orthographe et de la syntaxe. (3 crédits)

FRANÇAIS C407
Le Code Grammatical II

Préalable: Français C406 ou équivalent. Ce cours a pour but de fixer définitivement les connaissances grammaticales pratiques des étudiants, en particulier de ceux qui envisagent de poursuivre leurs études de français à un niveau supérieur. La norme étudiée dans ce cours tiendra compte à la fois des principes de la grammaire traditionnelle et des progrès récents dans l'étude de la langue. L'étude des unités d'expression mènera, par des exercices pratiques d'analyse fonctionnelle, à l'examen approdondi de certains points de stylistique. (3 crédits)

FRANÇAIS C408
Cours Libre de Traduction

Préalable: 6 crédits parmi C304, C305, C306, C307, C400, C401. Etude systématique des anglicismes; notions de méthodologie de la traduction; étude de quelques aspects de la stylistique comparée du français et de l'anglais; travaux pratiques de traduction de l'anglais au français. (6 crédits)
Note: Ce cours est destiné particulièrement mais non exclusivement aux étudiants qui ne se spécialisent pas en traduction.

FRANÇAIS C412
Initiation à la Terminologie du Droit I

Préalable: Français C303 ou équivalent. Le cours s'adresse aux étudiants qui, dans leur profession ou celle à laquelle ils se préparent, doivent utiliser le vocabulaire de l'appareil judiciaire et la terminologie des différentes branches du droit. On étudiera les situations telles que conflit locataire — propriétaire, problèmes d'assurance, contrat de mariage, etc. Par une étude théorique et pratique de divers litiges, par une recherche

individuelle et en jouant les rôles de divers personnages en situation, les étudiants approfondiront leurs connaissances de la langue du droit et apprendront à l'utiliser. (3 crédits)

FRANÇAIS C413
Initiation à la Terminologie du Droit II

Préalable: Français C412, Suite du cours C412. (3 crédits)

FRANÇAIS C418
Le Francais de l'Economie

Préalable: Français C303, C318/319 ou équivalent. Etude approfondie du vocabulaire de l'économie et des sciences politiques. Les principaux sujets abordés porteront sur les concepts fondamentaux de la science économique, sur les problèmes que pose le développement économique du Québec et sur les diverses solutions que l'on propose pour les résoudre. Le cours vise à faciliter à l'étudiant la compréhension de la documentation existant en français dans tous ces domaines et la communication orale et écrite de ses idées. (3 crédits)

FRANÇAIS C419
Le Français de la Finance et de la Gestion

Préalable: Français C303, C318/319 ou équivalent. Examen des principales difficultés de la langue française à partir d'une documentation axée sur le monde de la finance et sur la science de la gestion. Etude approfondie du vocabulaire français de la bourse, du management, du marketing, de la publicité et des relations industrielles. Rédaction de lettres et de rapports. Traduction de textes commerciaux. Le cours vise à faciliter l'usage du français dans les relations d'affaires. (3 crédits)

FRANÇAIS C420
Littérature du Moyen-Age

Préalable: Français C320 ou C321 ou autorisation du département Initiation à la langue et à la littérature du Moyen-Age, au moyen d'un choix d'œuvres épiques, romanesques, lyriques, historiques, pouvant varier d'une année à l'autre. En plus d'acquérir une vue générale de la littérature et une connaissance approfondie de quelques œuvres en traduction, l'étudiant se familiarisera suffisamment avec la langue pour ne plus être embarrassé à la lecture d'un texte en ancien français. (6 crédits)

FRANÇAIS C421
Panorama de la Littérature Française du Moyen-Age I

Préalable: Français C320 ou C321 ou autorisation du département. Au moyen d'une sélection d'œuvres des IXème, Xème, XIème et XIIème siècles, ce cours se propose de faire connaître et apprécier à l'étudiant les premières manifestations de la littérature française (Serment de Strasbourg, chanson de geste, roman courtois, etc.) (3 crédits)

FRANÇAIS C422
Panorama de la Littérature Française du Moyen-Age II

Préalable: Français C320 ou C321 ou autorisation du département. Au moyen d'une sélection d'œuvres des XIIIème, XIVème et XVème siècles, ce cours se propose de faire connaître et apprécier les richesses littéraires du Moyen-Age depuis les fabliaux et le *Roman de la Rose* jusqu'au Grand Testament de François Villon. (3 crédits)

FRANÇAIS C425
Introduction à la vie Littéraire du XVIème Siècle

Préalable: Français C320 ou C321 ou C270 ou équivalent. Les milieux. Les outils culturels. Les idéologies: problèmes, programmes, thèmes. Les événements littéraires: genèse, langue, portée. (3 crédits)

FRANÇAIS C426
La Poésie du XVIème Siècle: Des Doctrines aux Oeuvres

Préalable: Français C320 ou C321 ou C270 ou équivalent. Marot, Scève, Ronsard, D'Aubigné: leurs recherches, leur évolution, leur rayonnement. (3 crédits)

FRANÇAIS C427
La Littérature en Prose du XVIème Siècle: du Conte à l'Essai

Préalable: Français C320 ou C321 ou C270 ou équivalent. Orientation et fixation des types "humanistes" dans la littérature narrative et spéculative du XVIème siècle: Marguerite de Navarre, Rabelais, Montaigne. (3 crédits)

FRANÇAIS C428
La Littérature de l'Age Baroque

Préalable: Français C320 ou C321 ou C270 ou équivalent. Les dissonances de l'âge classique — Du romanesque au burlesque et à la fuite poétique. Théophile de Viau, Saint-Amant, Rotrou, Cyrano de Bergerac. . . (3 crédits)

FRANÇAIS C429
Le Siècle Classique

Préalable: Français C320 ou C321 ou C270 ou équivalent. La société classique: la Ville et la Cour, les salons, les honnêtes gens, les chefs-d'œuvres classiques. (3 crédits)

FRANÇAIS C430
Le Théâtre et le Roman Classiques

Préalable: Français C320 ou C321 ou C270 ou équivalent. Les dramaturges face aux règles classiques. La tragédie et la comédie classiques. Du roman précieux au roman classique. (3 crédits)

FRANÇAIS C431
Les Moralistes

Préalable: Français C320 ou C321 ou C270 ou équivalent. La pensée religieuse de Pascal à Boussuet. La morale laique (La Fontaine). Les mondains (La Bruyère et La Rochefoucauld). (3 crédits)

FRANÇAIS C432
L'aube des Lumières

Préalable: Français C320 ou C321 ou C270 ou équivalent. La querelle des Anciens et des Modernes et la remise en question du classicisme. Intérêt pour les questions politiques, religieuses et sociales. Vers le dix-huitième siècle. (3 crédits)

FRANÇAIS C433
Le Siècle des Lumières

Préalable: Français C320 ou C321 ou C270 ou équivalent. Le combat philosophique: ses origines, ses théories, ses modalités. Crise et critiques de la société française du XVIIème siècle: problèmes et solutions envisagés.
Les tendances littéraires: la question des genres; la question du goût: du beau objectif au beau subjectif; évolution de la langue: du style académique au style naturel. (6 crédits)

FRANÇAIS C434
Littérature du XVIIIème Siècle: les Oeuvres Militantes

Préalable: Français C320, ou C321 ou C270 ou équivalent L'esprit philosophique: libre examen; recherche d'une vérité positive; aspects de la satire, religieuse et sociale: des *Lettres Persanes à l'Encyclopédie.* (3 crédits)

FRANÇAIS C435
Littérature du XVIIIème Siècle: Théâtre et Roman I

Préalable: Français C320, ou C321 ou C270 ou équivalent Une passion du siècle: le théâtre (la comédie psychologique, la comédie militante: de Lesage à Beaumarchais).
Un rival: le roman. Orientations du genre: du roman picaresque au roman philosophique; du roman libertin au roman préromantique. (3 crédits)

FRANÇAIS C438
Le Romantisme

Préalable: Français C320 ou C321 ou C322 ou C270 ou C271 ou équivalent Le romantisme, phénomène européen; ses causes, ses caractères particuliers en France. Le Mal du siècle, ses vagues successives et leurs causes. Les grands thèmes romantiques.
Etude d'œuvres caractéristiques de Chateaubriand, Lamartine, Vigny, Hugo, Musset. (3 crédits)

FRANÇAIS C439
Littérature de la Période Romantique

Préalable: Français C320 ou C321 ou C322 ou C270 ou C271 ou équivalent. Evolution des écrivains de la période romantique. La révolution de 1830 et "l'école du désenchantement". Etude, dans un choix de romans, de l'invention de techniques réalistes propres à exposer les problèmes éthiques, sociaux et politiques d'une société qui s'urbanise et s'industrialise. (3 crédits)

FRANÇAIS C440
Littérature sous le Second-Empire: Une Littérature Ironique et Critique

Préalable: Français C320 ou C322 ou C271 ou équivalent. On cherchera à étudier et à expliquer la rupture qui intervient dans la deuxième moitié du XIXème siècle dans la forme et dans la finalité des œuvres littéraires, particulièrement, dans ce cours, chez Baudelaire et chez Flaubert. (3 crédits)

FRANÇAIS C441
La Fin du Siècle: Entre la Tour d'Ivoire et le Monde Réel

Préalable: Français C320 ou C322 ou C271 ou équivalent. On cherchera à étudier et à expliquer quelles tendances littéraires nouvelles s'expriment sous des termes comme réalisme, naturalisme ou symbolisme, dans des œuvres de Verlaine, Mallarmé, Rimbaud, Huysmans, Zola, Gide. (3 crédits)

FRANÇAIS C442
Introduction au XXème Siècle

Préalable: Français C320 ou C322 ou C271 ou équivalent. Les facteurs historiques, économiques et socio-politiques qui caractérisent la IIIème République aux environs de 1900; les mouvements qui agitent la société française et leurs répercussions dans la vie culturelle, particulièrement littéraire, de la "Belle Epoque". On étudie un certain nombre d'essais (Maurras, Bergson, Péguy . . .) qui distinguent l'héritage du siècle précédent des tendances nouvelles qui marqueront la littérature du XXème siècle. (3 crédits)

FRANÇAIS C444
Le Roman et la Poésie de 1900 à 1920

Préalable: Français C320 ou C322 ou C271 ou équivalent. Distinction entre la littérature en vogue et celle qui prépare le renouveau littéraire de l'entre-deux guerres par l'étude des œuvres de certains représentants de ces deux courants choisis parmi les suivants: France, Barrès, Bourget, Gide, Valéry, Proust, Apollinaire et Tzara. (3 crédits)

FRANÇAIS C445
Le Roman et la Poésie de l'Entre-Deux Guerres

Préalable: Français C320 ou C322 ou C271 ou équivalent. La guerre 14-18 et ses conséquences. Littérature des "années folles"; l'internationalisme pacifiste et l'inquiétude spirituelle. Analyse de l'explosion surréaliste. Les auteurs seront choisis parmi les suivants: Radiguet, Rolland, Jules Romains, Martin du Gard, Mauriac, Bernanos, Green, Giono, Colette, Breton, Eluard. (3 crédits)

FRANÇAIS C446
Le Roman et la Poésie du XXème Siècle I

Préalable: Français C320 ou C322 ou C271 ou équivalent. Littérature désabusée, littérature engagée. Problèmes de l'homme et de la société moderne. Le roman de la grandeur et de la condition humaines. Les écrivains de la Résistance. Les auteurs étudiés seront choisis parmi les suivants: Saint-Exupéry, Malraux, Montherlant, Céline, Giraudoux, Emmanuel, Jouve, Char. (3 crédits)

FRANÇAIS C447
Le Roman et la Poésie du XXème Siècle II

Préalable: Français C320 ou C322 ou C271 ou équivalent. Le domaine contemporain. Répercussion de la seconde guerre mondiale sur la vie sociale et culturelle. Littérature de l'absurde et du néant; pessimisme viril; tendances littéraires récentes: le nouveau roman, le surréalisme en question, la nouvelle poésie. Les auteurs étudiés seront choisis parmi les suivants: Camus, Sartre, Beauvoir, Robbe-Grillet, Queneau, Butor, Prévert, Michaux, Tournier. (3 crédits)

FRANÇAIS C450
Symboles et Archétypes de l'Imaginaire Québécois en Littérature

Préalable: Français C251. Identification, description, évolution des grands symboles et archétypes de l'imaginaire québécois en

littérature. Examen des modes de production et de transmission. Textes puisés aussi bien dans la littérature "officielle" que dans la littérature "populaire". (3 crédits)

FRANÇAIS C451
La Littérature Québécoise au Féminin

Préalable: Français C251. Etude des principales écrivaines québécoises. Saisie du réel et modes d'expression. Evolution de la conscience féminine. Les féminismes. (3 crédits)

FRANÇAIS C452
Les Ecrivains Québécois et la Question Nationale

Préalable: Français C251. L'interrogation québécoise et son rapport avec la création littéraire. Situation des écrivains par rapport à la question nationale. Littérature engagée, littérature de propagande. On examinera dans ce cours aussi bien des textes "théoriques" des écrivains que des textes de "création". (3 crédits)

FRANÇAIS C453
Le Fantastique et la Tradition Populaire dans la Littérature Québécoise

Préalable: Français C251. La présence du fantastique dans la littérature québécoise et l'influence de la tradition populaire au niveau des thèmes et des structures. Textes choisis parmi l'ensemble de la production littéraire. (3 crédits)

FRANÇAIS C454
Littérature et Para-Littérature Québécoises

Préalable: Français C251. Ressemblances et différences entre l'une et l'autre littérature. Conditions de production et de diffusion. Univers représenté. Structures des œuvres et idéologie. Textes choisis dans l'ensemble de la littérature québécoise. Guide: *Manuel de la petite littérature du Québec* de V.-L. Beaulieu. (3 crédits)

FRANÇAIS C455
Littérature Québécoise et Canadian Literature I

Préalable: Français C251 ou autorisation du département. Etude comparée des littératures québécoise et canadienne anglaise. Comparaisons des deux littératures sur le plan thématique, stylistique, structural, idéologique, etc. Examen des similitudes, des analogies et des traits distinctifs. L'accent dans ce demi-cours est mis sur les œuvres traditionnelles. Textes tels que: Grove *Settlers of the Marsh*, et Ringuet, *Trente Arpents;* MacLennan, *The Watch that Ends the Night* et Langevin, *Poussière sur la ville, etc.* (3 crédits)

FRANÇAIS C456
Littérature Québécoise et Canadian Literature II

Préalable: Français C251 ou autorisation du département. Etude comparée des littératures québécoise et canadienne anglaise. Continuation du demi-cours précédent. On mettra l'accent sur l'évolution des deux littératures depuis 1960. (Le nouveau roman québécois, etc.) Analyses thématique, idéologique et stylistique. Ressemblances et dissemblances. Textes choisis dans les œuvres d'Anne Hébert, de Robertson Davies, de Marie-Claire Blais, de Margaret Atwood, etc. (3 crédits)

FRANÇAIS C457
Littérature Québécoise I

Préalable: Français C251. Selon les besoins et désirs des étudiants, l'intérêt du professeur et le progrès de la recherche, on traitera ici de sujets spécifiques qui ne sont pas couverts par les autres cours. Par exemple: un mouvement littéraire; une période littéraire courte; un auteur particulier; un thème; la critique; étude comparative de la littérature québécoise et des littératures d'expression française, etc. (3 crédits)

FRANÇAIS C458
Littérature Québécoise II

Préalable: FRAN C251. Les étudiants ayant suivi Français C457 obtiendront 3 crédits pour C458 à condition que le contenu du cours ne soit pas le même. (3 crédits)

FRANÇAIS C459
Etude d'un Sujet Particulier en Littérature Québécoise

Préalable: Français C251. Ce cours a pour but d'élargir la perspective des études littéraires québécoises en proposant l'examen d'expressions artistiques et culturelles qui n'appartiennent pas spécifiquement au domaine littéraire mais entretiennent avec lui des rapports privilégiés du fait que le "texte" y possède une fonction précise. Par exemple: la chanson; le cinéma; le monologue; le radioroman et le téléroman, etc. (3 crédits)

FRANÇAIS C460
Initiation à la Terminologie

Préalable: Français C301 ou équivalent. Ce cours identifie certains problèmes de terminologie soulevés par la traduction et comprend des travaux pratiques tels que l'analyse lexicographique d'articles de journaux ou de revues en français ou en anglais, et la préparation de glossaires sur fiches. (3 crédits)

FRANÇAIS C461
Terminologie Pratique

Préalable: Français C364. Ce cours fait suite à l'initiation à la terminologie. Rédaction de dossiers terminologiques, études néologiques; étude des définitions, notes et contextes; analyse sémique. (3 crédits)

FRANÇAIS C462
Histoire de la Traduction

Préalable: Français C260 ou autorisation du département. Etude de textes et de traductions d'auteurs anglais et français. On étudiera l'évolution des styles et des attitudes à partir de la Renaissance jusqu'à l'époque moderne. (3 crédits)

FRANÇAIS C463
Revision et Correction en Traduction

Préalable: Francais C360 ou C361. Ce cours a pour objet de faire connaître aux étudiants les aspects humains et techniques de la révision. Il abordera surtout les différentes méthodes utilisées pour évaluer la qualité d'une traduction. (3 crédits)

FRANÇAIS C464
Stage de Formation: du Français à l'Anglais

Préalable: 3ème année dans le programme de traduction. Le stage a pour but d'initier l'étudiant à l'activité professionnelle dans le

domaine de la traduction du français à l'anglais et de lui faire connaître le monde du travail. (6 crédits)

FRANÇAIS C465
Stage de Formation: de l'Anglais au Français

Préalable: 3ème année dans le programme de traduction. Le stage a pour but d'initier l'étudiant à l'activité professionelle dans le domaine de la traduction de l'anglais au français et de lui faire connaître le monde du travail. (6 crédits)

FRANÇAIS C466
La Langue Française au Québec: son Evolution

Préalable: Français C251 et autorisation du département. Aperçu de l'évolution du français sur le territoire québécois; influences internes et externes. Etude des rapports entre l'évolution politique et économique du Québec et celle de la langue par la consultation de documents provenant d'époques successives. (3 crédits)

FRANÇAIS C467
La Langue Française au Quebec: son Etat Actuel

Préalable: Français C251 et autorisation du département. Analyse des aspects phonétique, lexical et morphosyntaxique du français québécois actuel et des divergences de ce dernier par rapport à la norme européenne: archaismes, anglicismes, créations nouvelles. La question des niveaux de langue (aspects sociaux et linguistiques) et celle de la norme seront également abordées. (3 crédits)

FRANÇAIS C468
Etude de la Norme

Préalable: Français C324 et autorisation du département. Etude des facteurs politiques, sociologiques et psychologiques contribuant à la notion de la norme. Analyse et description des écarts par rapport à la norme. Travaux pratiques d'enquête. (3 crédits)

FRANÇAIS C469
Sémantique

Préalable: Français C262. Etude formelle de la signification et de la segmentation du sens en français fondée sur une approche sémiotique de la langue. L'étudiant fera l'apprentissage de méthodes d'analyse lui permettant d'inventorier les effets de sens et de les ordonner en fonction de critères objectifs. (3 crédits)

FRANÇAIS C472
Le Théâtre Français du XXème Siècle I

Préalable: Français C320 ou C322 ou C271 ou C272 ou équivalent. A la fin du XIXème siècle, le théâtre français connut des transformations profondes. Ce cours suivra l'évolution du théâtre à partir d'Antoine, à travers ses étapes successives, jusqu'à la fin de la période de l'entre-deux-guerres. Seront étudiés les grands metteurs en scène qui ont succédé à Antoine: Lugné-Poe, Copeau et le Cartel, ainsi que les mouvements d'idées et les dramaturges qui ont marqué cette période. (3 crédits)

FRANÇAIS C473
Le Théâtre Français du XXème Siècle II

Préalable: Français C320 ou C322 ou C271 ou C272 ou équivalent. La guerre de 1939-1945 marque une coupure dans l'histoire du théâtre en France au XXème siècle. La relève du Cartel est assurée par des animateurs tels que Jean-Louis Barrault, Jean Vilar, Roger Planchon, etc. De nouvelles lignes de force se dégagent. Seront étudiés, entre autres, des représentants du théâtre politique, du théâtre de l'Absurde et du théâtre nouveau qui se développe à la suite des événements de mai 1968. (3 crédits)

FRANÇAIS C474
Etude d'un Sujet Spécial dans le Théâtre Français

Préalable: Français C320 ou C322 ou C271 ou C272 ou équivalent. Ce cours portera sur une période ou un problème particuliers dans l'histoire du théâtre français. Les sujets seront, par exemple: les origines du théâtre français dans le drame liturgique et son développement en tant que forme populaire jusqu'au théâtre baroque; le théâtre dit "classique" de sa naissance jusqu'à son déclin; le théâtre de la Révolution française; la *commedia dell'arte* en France; le théâtre bourgeois de Diderot aux comédies du boulevard. (3 crédits)

FRANÇAIS C475
Etude d'un Sujet Spécial dans le Théâtre Français

L'étudiant s'inscrivant pour la seconde fois au Français C472 (sur un sujet différent) obtient les crédits Français C475. (3 crédits)

FRANÇAIS C476
La Littérature au Féminin I

Préalable: Français C320 ou C322 ou C270 ou C271 ou équivalent. A partir de manifestes et d'œuvres de création, on retracera différentes manifestations de la prise de conscience "féminste" chez les écrivaines françaises ainsi que les solutions envisagées aux problèmes posés. Ce cours permettra de considérer les tendances actuelles dans une perspective historique. (3 crédits)

FRANÇAIS C477
La Littérature au Féminin II

Préalable: Français C320 ou C322 ou C270 ou C271 ou équivalent. Ce cours portera sur l'éclatement qui caractérise l'écriture au féminin à l'heure actuelle. On étudiera différents concepts tels que la "prise de parole", la valorisation de l'*anima*, le renversement des mythes anciens, ainsi que la révolution formelle et stylistique qui accompagne cet éclatement. (3 crédits)

FRANÇAIS C478
Histoire de la Critique Littéraire

Préalable: 6 crédits en littérature. Etude de l'évolution de la critique littéraire des origines au début du XXème siècle, au moyen d'un choix d'œuvres théoriques et critiques. (3 crédits)

FRANÇAIS C480
Approches Critiques I: La Sémiotique Textuelle

Préalable: 6 crédits en littérature. Etude des conditions générales de la production du sens et de la spécificité du texte littéraire.

Examen des principales théories formalistes en France et au Québec et apprentissage des méthodes critiques qui en découlent. Travaux pratiques qui permettront à l'étudiant d'en contrôler l'efficacité et la valeur au contact des œuvres. (3 crédits)

FRANÇAIS C481
Approches Critique II: La Sociologie de la Littérature

Préalable: 6 crédits en littérature. Etude des relations qu'entretiennent entre eux le littéraire et le social. Le point de vue résolument sociologique que l'on adoptera dans ce cours permettra d'étudier l'œuvre en fonction du milieu qui en a permis l'émergence et du contexte socio-idéologique dont elle est à la fois un reflet et un élément actif. (3 crédits)

FRANÇAIS C482
Approches Critiques III: La Critique Philosophique

Préalable: 6 crédits en littérature. Ce cours vise à sensibiliser l'étudiant aux problèmes épistémologiques que pose l'étude d'un texte littéraire. La critique philosophique, essentiellement thématique, doit constamment remettre en question ses présupposés théoriques et tenter de justifier sa méthode. Quelles sont les conditions d'un discours véridique prenant en charge le texte littéraire, quelle est la signification du texte littéraire considéré comme signe global, telles sont les deux principales questions qui seront examinées. (3 crédits)

FRANÇAIS C483
Approches Critique IV: La Psycho-Critique

Préalable: 6 crédits en littérature. Ce cours est une introduction à la psychanalyse de la littérature. Axé sur le créateur et sur ses rapports avec sa création, il permettra à l'étudiant de faire le point sur les différentes méthodes psychocritiques et sur leurs applications. Par des travaux pratiques d'interprétation portant sur des œuvres particulières, on évaluera les avantages de chaque méthode et on en précisera les limites. (3 crédits)

FRANÇAIS C489
Méthodologie des Travaux de Recherche

Préalable: autorisation du département. Destiné aux étudiants de dernière année et préparant aux études graduées, ce cours permettra, par des exercices de rédaction commentés et critiqués, d'atteindre la précision, l'élégance et l'originalité dans l'expression écrite. Analyse stylistique proprement dite (définitions et procédés de style). Théorie et pratique de l'analyse de texte — Théorie de la versification — Théorie et pratique des recherches bibliographiques. (6 crédits)

FRANÇAIS C490
Etude avancée d'un sujet particulier

Préalable: 12 crédits de langue ou de linguistique au niveau "400". Etude d'un sujet particulier dans le domaine de la langue ou de la linguistique. (6 crédits)

FRANÇAIS C491
Etude avancée d'un sujet particulier

Préalable: 12 crédits de langue ou de linguistique au niveau "400". Etude d'un sujet particulier dans le domaine de la langue ou de la linguistique. (3 crédits)
Note: Tout étudiant s'inscrivant pour le seconde fois au cours C490 obtient les crédits C491.

FRANÇAIS C492
Etude avancée d'un sujet particulier

Préalable: 12 crédits de langue ou de linguistique au niveau "400". Etude d'un sujet particulier dans le domaine de la langue ou de la linguistique. (3 crédits)
Note: Tout étudiant s'inscrivant pour le seconde fois au cours C491 obtient les crédits C492.

FRANÇAIS C493
Etude avancée d'un sujet particulier

Préalable: 12 crédits en littérature dont 6 au niveau "400". Etude d'un sujet particulier dans le domaine de littérature. (6 crédits)

FRANÇAIS C494
Etude avancée d'un sujet particulier

Préalable: 12 crédits en littérature dont 6 au niveau "400". Etude d'un sujet particulier dans le domaine des littératures. (3 crédits)

FRANÇAIS C495
Etude avancée d'un sujet particulier

Préalable: 12 crédits en littérature dont 6 au niveau "400". Etude d'un sujet particulier dans le domaine des littératures.
Note: Tout étudiant s'inscrivant pour le seconde fois au cours C494 obtient les crédits C495.

FRANÇAIS C498
Etude avancée d'un sujet particulier

Préalable: 12 crédits dans la spécialité dont 6 au niveau "400". Ce cours n'est ouvert qu'aux étudiants des programmes de majeure, de spécialisation ou d'honneurs. Il offre l'occasion d'approfondir l'étude d'un sujet à déterminer par l'étudiant en accord avec son conseiller et/ou un professeur du département. Chaque étudiant exécute des travaux individuels sous le contrôle du professeur spécialiste de la matière. (6 crédits)

FRANÇAIS C499
Etude avancée d'un sujet particulier

Tout étudiant s'inscrivant pour le seconde fois au cours C498 obtient les crédits C499. (6 crédits)

31.15 Geography

Chairman
B. SLACK, *Associate Professor*

Professors
R. BRYANT
D. FRASER

Associate Professors
R. AIKEN
H. CLINCH
D. B. FROST
M. MARSDEN
J. YOUNG

Assistant Professors
J. ANDERSON
M. BARLOW *(Coordinator of Geography Loyola Campus)*

Lecturers
P. THORNTON
G. WADDINGHAM

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Honours in Geography

Pattern A: Physical Geography
Year I
18 GEOG C211[6], C262[6], C271[6]
Years II & III
12 GEOG C341[6], C362[3], C391[3]
18 Chosen from GEOG C371[6], C372[6], C373[6], C475[3], C476[3]
6 GEOG Elective credits at the '300' or '400' level (excluding those listed above)
Year III
6 GEOG C491[6]

Pattern B: Human Geography
Students following this pattern may emphasize one of the following areas within Geography: cultural, economic, historical or urban
Year I
18 GEOG C211[6], C262[6], C271[6]
Years II and III
12 GEOG C341[6], C362[3], C391[3]
18 GEOG chosen from one of the following groups. An approved 6 credit option outside Geography may be substituted for 6 of the credits listed below:
Cultural: GEOG C313[6], C316[6], C317[3], C345[6], C356[6], C357[6], C412[6]
Economic: GEOG C350[3], C351[3], C355[6], C356[6], C357[6], C451[6], C457[6]
Historical: GEOG C313[6], C316[6], C325[3], C422[6], C424[6]
Urban: GEOG C313[6], C331[6], C355[6], C412[6], C433[6], C457[6]
6 GEOG elective credits at 300 or 400 level other than those listed in the selected group
Year III
6 GEOG C491[6]
NOTE: The Department of Geography will hold a series of field trips outside regular scheduled class times.
All Honours students will be required to participate in at least five such trips during the course of their undergraduate programme.

60 BA Specialization in Geography

Pattern A: Physical Geography
18 GEOG C211[6], C262[6], C271[6]
12 GEOG C341[6], C362[3], C391[3]
18 GEOG Chosen from C371[6], C372[6], C373[6], C475[3], C476[3]
or an approved 6-credit option outside Geography
12 GEOG Elective credits at the 300 or 400 level

Pattern B: Human Geography
Students following this pattern may emphasize one of the following areas within Geography: cultural, economic, historical or urban
18 GEOG C211[6], C262[6], C271[6]
12 GEOG C341[6], C362[3], C391[3]
18 GEOG chosen from one of the following groups. An approved 6 credit option outside Geography may be substituted for 6 of the credits listed below:
Cultural: GEOG C313[6], C316[6], C317[3], C345[6], C356[6], C357[6], C412[6]
Economic: GEOG C350[3], C351[3], C355[6], C356[6], C357[6], C341[6], C457[6]
Historical: GEOG C313[6], C316[6], C325[6], C422[6]
Urban: GEOG C313[6], C331[6], C355[6], C412[6], C433[6], C457[6]
12 GEOG elective credits at the 300 or 400 level

42 BA Major in Geography

18 GEOG C211[6], C262[6], C271[6]
12 GEOG C341[6], C362[3], C391[3]
12 GEOG Elective credits at the 300 or 400 level

42 BA Major in Man-Environment Relationships (Loyola)

Year I
18 GEOG C211[6], C265[3], C266[3], C275[3], C276[3]
Year II
6 GEOG C305[6]
6 Chosen from GEOG C316[6], C357[6], C371[6]
Year III
6 GEOG C405[6]
6 Chosen from C317[3], C350[3], C351[3], C356[6]

30 BA Minor in Geography

12 GEOG C211[6], C271[6]
6 GEOG C262[6]
12 GEOG Elective credits at the 300 or 400 level

66 BSc Specialization in Geography

18 GEOG C211[6], C262[6], C271[6]
12 Chosen from GEOG C371[6], C372[6], C373[6], C462[3], C463[3], C475[3], C476[3]
36 credits all chosen from one of the following groups: Environmental Geography, Hydrology, Geoscience. Choices must be made in consultation with the departmental adviser.

ENVIRONMENTAL GEOGRAPHY
GEOG C362[3], C363[3], C371[6], C372[6], C373[6]
BIOL C230[3], C240[3], C242[3], C246[3], C250[3], C342[3], C343[3], C348[6], C351[3], C353[3], C355[3], C450[3]
PHYS C243[3], C273[3]
CHEM C221[3], C222[3], C231[3], C232[3], C326[2]
GEOL C212[3]
MATH C210[3], C241[6], C271[3], C310[3], C371[3]

HYDROLOGY
GEOG C362[3], C363[3], C371[6], C372[6], C475[3], C476[3]
BIOL C230[3], C240[3], C250[3], C342[3], C348[6], C450[3]
GEOL C210[3], C213[3], C215[3]
MATH C210[3], C241[6], C261[6], C271[3], C371[3]
PHYS C243[3], C244[3], C434[3]
CHEM C231[3], C232[3]

GEOSCIENCE
GEOG C362[3], C363[3], C371[6], C372[6], C475[3], C476[3]
GEOL C210[3], C213[3], C215[3], C221[3], C315[3]
MATH C241[6], C261[6], C271[3], C371[3]
PHYS C243[3], C244[3], C434[3], C494[1]

42 BSc Major in Geography

12 GEOG C262[6], C271[6]
12 Chosen from GEOG C371[6], C372[6], C373[6], C462[3], C463[3], C475[3], C476[3]
18 all chosen from one of the three groups listed under Specialization in Geography: *Environmental Geography, Hydrology, Geoscience.*

30 BSc Minor in Geography

12 GEOG C262[6], C271[6]
12 Chosen from GEOG C371[6], C372[6], C373[6], C462[3], C463[3], C475[3], C476[3]
6 Chosen from one of the three groups listed under Specialization in Geography: *Environmental Geography. Hydrology, Geoscience.*

NOTE: The courses in Geography listed below are acceptable as science credits in the Bachelor of Science degree.

GEOGRAPHY C262
Introduction to Cartography
(6 credits)

GEOGRAPHY C271
The Natural Environment
(6 credits)

GEOGRAPHY C351
Forest Geography
(3 credits)

GEOGRAPHY C362
Quantitative Geography I
(3 credits)

GEOGRAPHY C363
Quantitative Geography II
(3 credits)

GEOGRAPHY C371
Biogeography
(6 credits)

GEOGRAPHY C372
Analysis of the Environment
(6 credits)

GEOGRAPHY C373
Climatology
(6 credits)

GEOGRAPHY C462
Advanced Cartography
(3 credits)

GEOGRAPHY C463
Topics in Applied Cartography
(3 credits)

GEOGRAPHY C475
Hydrology I
(3 credits)

GEOGRAPHY C476
Hydrology II
(3 credits)

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

GEOGRAPHY C200
Foundations of Geography: Environment and Man

A course designed for the student with no previous training who is interested in the geographic background to world and environmental problems. A study will be made of both physical and human factors in geography. Areas of concentration will be: energy, natural systems and the environment; landscape evolution, climate and resources; variation and spatial distribution of man's economic, social and political activities; the relationship of urban and non-urban man to the environment. *Lectures:* 3 hours per week, including *Lab.* (6 credits)

GEOGRAPHY C201
The Ecology of Man

A general introduction to the relationship between physical and cultural distributions of the earth's surface. Global pattern of human economic and natural resources will be examined. (6 credits)

GEOGRAPHY C211
Introduction to Human Geography

A study of the evolution of the earth's populated area and the gradual enlargement of geographical horizons. The emphasis will be on cultural distributions, landscape and settlement, and the geography of economic, social, and political activities. (6 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Urban Studies Programme.

GEOGRAPHY C222
Prehistoric Man and Environment

An examination of the scientific evidence of the unwritten part of man's evolutionary history, covering both food-gathering and food-producing man. The course will consider changes in the natural environment during this period as a background against which the temporal and spatial aspects of biological and cultural evolution occurred. (6 credits)
NOTE: Students who have taken GEOG C212 may not take this course for credits.
NOTE: This course may be taken for credits in the Science and Human Affairs Programme.

GEOGRAPHY C262
Introduction to Cartography

An introduction to the study of maps as a tool of the geographer. The course will focus on the various stages involved in topographic map production and map interpretation, and the study of the cartographic methods available for presenting qualitative and quantitative statistical data on maps. Laboratory assignments of a practical nature which are complementary to the lectures form an important part of the course. (6 credits)
NOTE: This course may be taken for credits in the Urban Studies Programme.

GEOGRAPHY C265
Maps and the Presentation of Statistical Data I

This course is useful to anyone interested in how to read and analyze the information on a map; or in how to display data by means of maps and diagrams. It is basic to all other courses in Geography. Topics will include: analysis of topographic, land use, urban and weather maps; the application of maps to economic, social, medical and historical topics; the interpretation of aerial photographs. *Lab:* 3 hours per week. (3 credits)

GEOGRAPHY C266
Maps and the Presentation of Statistical Data II

The emphasis in this part of the course will be on thematic maps and statistical diagrams and graphs. Elementary quantitative techniques will be studied and their application to the analysis of geographic, economic, population and other scientific and problem data. *Lab:* 3 hours per week. (3 credits)

GEOGRAPHY C271
The Natural Environment

An introduction to the earth sciences as they relate to the environment of man, with special emphasis on weather, climate and the evolution of landscape. (6 credits) *NOTE A/See § 200.1*

GEOGRAPHY C273
The Sea

A physical, historical, and human geography of the world ocean. The course includes an introduction to oceanography, navigation, and elementary geophysics, as well as an account of travels and discovery ending with modern scientific exploration of the deeps. Topics include coasts and islands; ports, ships, and shipping; submarine topography; waves, tides, and earthquakes; marine life, fish and fisheries. (6 credits) *NOTE A/See § 200.1*

GEOGRAPHY C275
Climate and the Biosphere

A study of the energy systems of the atmosphere and an introduction to environmental geography. The hydrologic cycle, world climates and weather systems. Interrelationships in the biosphere, and man's impact upon them. Weather and climate maps will also be studied. *Lectures:* 3 hours per week, including *Lab.* (3 credits)

GEOGRAPHY C276
Landforms and the Biosphere

GEOG C275 a help. An introduction to the energy systems of the earth's crust and oceans, and the processes which have shaped our environment. The evolution of land forms and man's impact upon landscapes. The Pleistocene and Recent epochs in Canada, and their effects on soils and land use. The study of relevant topographic land-use maps, and aerial photographs. *Lectures:* 3 hours per week, including *Lab.* (3 credits)

GEOGRAPHY C305
Tutorial in Man-Environment Relationships I

Prerequisite: 18 credits in Geography. Tutorial discussion of the changing human attitudes to nature, perception of the environment and of the impact of environmental factors on man and culture. (6 credits)

GEOGRAPHY C313
Montreal: Habitat and Society

Prerequisite: GEOG C211 or permission of the Department. The course is an introduction to the urban geography of Montreal both past and present. Three themes are investigated. They are (a) 'habitat': the biophysical environment of the site, the growth of the physical fabric of the city and the evolution of its architectural forms; (b) 'Society and ways of life': the origins and growth of population, the ethnic and cultural heritage of the city and the pattern of social areas within the metropolitan region, and (c) 'the contemporary urban scene': the personality of the city's landmarks, nodes, streetscapes and districts. Fieldwork is an important part of the course. (6 credits)

GEOGRAPHY C316
Cultural Geography

Prerequisite: GEOG C211 or permission of the Department. Cultural Geography is concerned with the application of the concept of culture to geographic problems. Attention is focused on the spatial *patterning* of material and non-material elements of culture (culture areas); on the *processes* of cultural, temporal and spatial change; on the *relationships* between man and land (cultural ecology);

and especially on how these relationships are reflected in different *ensembles* of man and land (cultural landscapes). (6 credits) *NOTE A/See § 200.1*

GEOGRAPHY C317
Population Geography

Prerequisite: GEOG C200 or C211 or permission of the Department. The characteristics, dynamics and distribution of world populations. Census data and techniques of census analysis. Rural/urban populations and their varying proportions. The vital processes of population change; natural increase and migration. Growth rates, population policies, and population pressure. Study of selected groups. The demographic prospects. *Lectures:* 3 hours per week. (3 credits)

GEOGRAPHY C325
Introduction to Historical Geography

Prerequisite: GEOG C211 or permission of the Department. An examination of the geographical factors in historic events; of the distribution and migration of peoples; of differing settlement patterns and the growth of cities. The effect of physical boundaries in war and peace. The agricultural and industrial revolutions and their effects, and special reference to Europe. *Lectures:* 3 hours per week. (3 credits)

GEOGRAPHY C331
Urban Geography

Prerequisite: GEOG C211 or INTE C280 or permission of the Department. A study of the prehistoric town, the Greek and Roman town, towns in the Middle Ages, the trading city, the pioneer town and the modern metropolis. The distribution of such towns, their development, growth and internal pattern of organization will be looked at from an historical and geographical point of view. Problems of conurbations and large metropolitan cities in the present age will be discussed and evaluated. Special emphasis will be given to Canadian cities, to their site, function, organization, growth and development as well as to urban problems relating to zoning, transportation, urban renewal, etc. (6 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Urban Studies Programme.

GEOGRAPHY C341
Regional Geography of Canada

Prerequisite: One of GEOG C200, C211, C271, C275 and C276 or permission of the Department. A study of Canada, past and present, based on the various natural regions into which the country is divided. In the first half of the course an historic-geographical approach will be taken to bring to the student's attention the main trends in Canadian cultural and historical development from aboriginal times to the present. The changing nature of man-land relationships at different periods of time, and under different forms of occupance, will receive particular attention. In the second half of the course the present day pattern of human occupance on a regional and national basis will be analyzed. (6 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Canadian Studies Programme.

GEOGRAPHY C345
The Geography of a Selected Region

Prerequisite: One of GEOG C200, C211, C271, C275 and C276 or permission of the Department. A detailed examination of the physical environment, the people, their history, and the present political and economic patterns within the region. The course will provide a deep understanding of the interrelationships between the constituents of the region, an appreciation of those factors responsible for regional unity and will also illustrate the holistic nature of the geographical discipline. (6 credits) *NOTE A, C/See § 200.1. In alternate years beginning 1976-77 this course will focus on the Geography of the USSR.*
NOTE: This course may be taken for credits in the Russian Studies Programme. A student registering for a second time should register under C346.

GEOGRAPHY C346
The Geography of a Selected Region

Prerequisite: Permission of the Department. A student repeating Geography C345 registers for credits under Geography C346. (6 credits) *NOTE A/See § 200.1*

GEOGRAPHY C350
Geography of Agriculture

Prerequisite: Twelve credits in Geography or permission of the Department. Classification of agriculture systems, food production in relation to new biological, cultural and marketing developments. There will be some consideration of land use mapping and land potential assessment. (3 credits) *NOTE A/See § 200.1*

GEOGRAPHY C351
Forest Geography

Prerequisites: Geography C211 and C271 or enrolment in an honours, specialization, or major programme in the Department of Biology. A study of the natural development and distribution of world forests, their modification by human interference and the economic impact of forest management. Actual problems will be examined in a Quebec context both in class and in the field. (3 credits) *NOTE A/See § 200.1*

GEOGRAPHY C355
Spatial Organization

Prerequisite: GEOG C211 or permission of the Department. A study of how man organizes spatial activities with the emphasis on the concepts of spatial interaction, location of activities, diffusion and individual decision. (6 credits) *NOTE A/See § 200.1*

GEOGRAPHY C356
The Geography of Recreation and Tourism

Prerequisite: GEOG C211 or permission of the Department. The course examines the geographical aspects of recreation and tourism. Approaches are from the viewpoint of spatial patterns and man-environment relations, and contexts include the developed and less developed nations, and urban and rural regions. Topics such as the following will be studied — the geography of travel, tourism as a factor in space-economy development, the geography of national parks and the location of recreation facilities in urban areas. (6 credits)

GEOGRAPHY C357
Resource Utilization and Conservation

Prerequisite: GEOG C200 or C211 or permission of the Department. The course will examine the resource concept and concepts of conservation together with the regional approach to resource management. Case studies will include problems in developing particular natural resources and inter-state areas of poor economic health with emphasis on the regional and natural parts of such developments. Special emphasis will be given to Canadian problems and those of selected underdeveloped countries. (6 credits) *NOTE A/See § 200.1*

GEOGRAPHY C358
Economic Geography I

Prerequisite: GEOG C211 or permission of the Department. An introduction to the field of economic geography in which the geographical aspects of economic systems are explored. Topics include: Spatial patterns of agricultural and industrial production; the spatial structure of transportation systems; the geography of international trade; and the geography of multinational corporations. (3 credits)
NOTE: Only 6 credits will be awarded for GEOG C355, C358 and C359.

GEOGRAPHY C359
Economic Geography II

Prerequisite: GEOG C211, C358 or permission of the Department. This course involves further study in the field of economic geography. The emphasis is upon theories relating to agricultural land use patterns and industrial location, studies of location decision-making behaviour, the role of governments in the evolution of space-economies, and the geographical aspects of economic problems. (3 credits)
NOTE: Only 6 credits will be awarded for GEOG C355, C358 and C359.

GEOGRAPHY C362
Quantitative Geography I

Prerequisite: 12 credits in Geography or permission of the Department. An introductory course in the applications of descriptive and analytical statistical techniques in Geography. Lectures and Laboratory. (3 credits)
NOTE: Only 6 credits will be given from ECON C221 and C222; GEOG C362 and C363, MATH C241; QUAN C243 and C244; SOCI C210, PSYCH C317 and C318.

GEOGRAPHY C363
Quantitative Geography II

Prerequisite: Geography C362. A study of selected multivariate techniques and their application in geography. Practical projects using computer facilities will be assigned. A course in Computer Science would be an asset. (3 credits) *NOTE A/See § 200.1*
NOTE: Only 6 credits will be given from Economics C221 and C222; Geography C362 and C363; Mathematics C241; Quantitative Methods C243 and C244; Sociology S241; Psychology S241 and S242.

GEOGRAPHY C371
Biogeography

Prerequisite: GEOG C271 or permission of the Department. A study of the distribution of plants and animals with emphasis on their soil and climatic interrelations. Relevant field trips are included. (6 credits)

GEOGRAPHY C372
Analysis of the Environment

Prerequisite: GEOG C271 or permission of the Department. A review of modern theories and techniques in geomorphology, hydrology, pedology, denudation, chronology and landscape classification. The course includes a discussion of the Pleistocene Epoch in terms of applied research methods. (6 credits)

GEOGRAPHY C373
Climatology

Prerequisite: GEOG C271 or permission of the Department. The broad aspects of world regional climates considered from the point of view of both physical and dynamic climatology. The course includes practical work. (6 credits) *NOTE A/See § 200.1*

GEOGRAPHY C391
History of Geographical Thought

Prerequisite: Eighteen credits in Geography. A study of the development of the field of geography from ancient times down to the present. Representative geographical works of the Greeks, the Romans and of the Middle Ages, the Age of Discovery, the 19th and 20th centuries will be examined and discussed. The present day concepts of the field and function of geography will receive special attention. (3 credits) *NOTE A/See § 200.1*

GEOGRAPHY C405
Tutorial in Man-Environment Relationships II

Prerequisite: Geography C305. Tutorial discussion of man's impact on the environment, emphasizing current problems and issues. (6 credits)

GEOGRAPHY C412
Political Geography

Prerequisite: GEOG C316 or C355 or permission of the Department. The course will be structured around traditional and contemporary themes in political geography. Emphasis will be upon the political/administrative organization of space, the interrelationships between politics and environment, electoral geography, and the geographical aspects of public policy. These will be studied within the context of the four main levels of government (local, regional, national, and international). Consideration will be given to urban and regional systems, and to Canadian situations and problems. (6 credits) *NOTE A/See § 200.1*

GEOGRAPHY C422
Historical Geography of Quebec and Ontario

Prerequisite: GEOG C325, C341 or permission of the Department. A study of an historical nature of past geographic patterns, economic, social, cultural and political, in Quebec and Ontario. (6 credits) *NOTE A/See § 200.1*

GEOGRAPHY C424
The Historical Geography of a Selected Area

Prerequisite: GEOG C211 or permission of the Department. This course will examine the evolution of the geography of a selected area of continental scale. The emphasis will be on such substantive issues as the growth, composition and movement of population, the occupation of the land, settlement patterns, the evolution of the cultural landscape and the emergence of regional patterns of man and land. (6 credits)

GEOGRAPHY C433
Applied Urban Geography

Prerequisite: GEOG C211 or INTE C280; GEOG C331 or permission of the Department. A study of the contemporary city with emphasis on problems arising from urban growth. Attention will be given to the possibilities for planned development including New Towns. (6 credits)
NOTE: This course may be taken for credits in the Urban Studies Programme.
NOTE: Students who have received credit for GEOG C401 or INTE C480 may not take this course for credit.

GEOGRAPHY C451
Special Seminar in Economic Geography

Prerequisites: Geography C211, C355, C362 or permission of the Department. This course will provide opportunities to senior students for discussion and advanced study. Subject matter will vary from year to year to take advantage of the special interests of the seminar leader. (6 credits) *NOTE A/See § 200.1*

GEOGRAPHY C457
Geography of Transportation

Prerequisites: Geography C211, C331 or C355 or permission of the Department. A study of patterns of transport facilities and traffic flows. Emphasis will be on general concepts of route alignment, network layouts, and on applications of spatial interaction models to economic flows. (6 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Urban Studies Programme.

GEOGRAPHY C462
Advanced Cartography

Prerequisite: Geography C262 and twelve additional credits in Geography. A study of the major stages and techniques involved in map compilation, design and production. Lectures, practical periods with assignments and relevant field trips. (3 credits) *NOTE A/See § 200.1*
NOTE: Students who have credits for Geography N-466 in 1975-76 may not register for this course.

GEOGRAPHY C463
Topics in Applied Cartography

Prerequisite: Geography C462. The subject matter of the course will vary from year to year to take advantage of the special interests of the course instructor and may include such topics as automated cartography, remote sensing, historical cartography or special purpose mapping. Seminars, practicals with assignments and relevant field trips. Students may register for this course a second time under C464 (3 credits) *NOTE C/See § 200.1*

GEOGRAPHY C464
Topics in Applied Cartography

Prerequisite: Permission of the Department. A student taking Geography C463 a second time registers for credits under Geography C464. (3 credits) *NOTE A/See § 200.1*

GEOGRAPHY C475
Hydrology I

Prerequisite: GEOG C271 and one of GEOG C371, C372, C373 or permission of the Department. Theories and Practice of Hydrology with emphasis on geographical aspects and resource utilization. Includes introduction to glaciology. (3 credits)

GEOGRAPHY C476
Hydrology II

Prerequisite: Geography C475. Soil moisture experiments, textural analysis, hydrological models and field trips. (3 credits) *NOTE A/See § 200.1*

GEOGRAPHY C491
Research Methods

Prerequisite: Final year standing in Honours Geography. A selected review of the methods and techniques used to acquire and process original geographical information in the field and laboratory. Includes field work and practical sessions. (6 credits) *NOTE A/See § 200.1*

31.16 Geology

Chairman
H. S. de ROMER, *Associate Professor*

Professor
D. J. McDOUGALL

Associate Professors
J. T. JENKINS
S. KUMARAPELI
K. K. MUKHERJI
G. P. SASSANO

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

75 BSc Honours in Geology

Year I
18 GEOL C211[3], C212[3], C213[3], C215[3], C216[3], C221[3]
6 Science elective credits chosen from CHEM C211[6], C231[2], C232[2] COMP C211[3], MATH C241[6] BIOL C222[3], C223[3]
Year II
21 GEOL C311[6], C312[3], C313[3], C314[3], C315[3], C316[3]
3 GEOL elective credits
Year III
21 GEOL C411[6]C C412[6], C413[3], C414[6]
6 GEOL elective credits

63 BSc Specialization in Geology

Year I
18 GEOL C211[3], C212[3], C213[3], C215[3], C216[3], C221[3]
6 Science elective credits chosen from CHEM C211[6], C231[2], C232[2] COMP C211[3]; MATH C241[6] BIOL C222[3], C223[3]
Year II
21 GEOL C311[6], C312[3], C313[3], C314[3], C315[3], C316[3]
Year III
15 GEOL C411[6], C412[6], C413[3]
3 GEOL elective credits

45 BSc Major in Geology (Ecology Option)

Year I
18 GEOL C210[3], C211[3], C215[3], C220[3], BIOL C230[3], C240[3]
Year II
15 GEOL C212[3], C213[3], C311[6], BIOL C250[3]
Year III
3 GEOL C316[3]
6 credits in Geology
3 credits in Ecology in consultation with the Department of Biological Sciences

39 BSc Major in Geology

Year I
12 GEOL C210[3], C211[3], C212[3], C213[3]
Year II
9 GEOL C220[3], C311[6]
6 GEOL elective credits
Year III
12 GEOL elective credits approved by the Department

24 Minor in Geology

6 GEOL C210[3], C220[3]
18 GEOL elective credits of which no more than 9 credits can be chosen from the GEOL 200-209 series
NOTE: GEOL C201[3], C202[3], C203[3], C204[3], C205[3] and C220[3] may be taken by students in other disciplines who are interested in Geology. No previous background in Geology is required.

Students without CEGEP Geology 901, or equivalent, may be required, at the discretion of the Department, to take Geology C210[3].

Students seeking admission to the Honours programme on or after June 1st, 1977 will be bound by the Honours requirements outlined in § 16.2.4 of this Calendar. Students who already had Honours status by June 1st, 1977 will continue to be governed by the requirements which applied at the date of their admission to the Honours programme.

Field Trips and Field Schools

Lectures and laboratory work cannot successfully substitute for actual observation and study of geology in the field. Therefore, field trips to areas of geological interest are an essential part of many courses. In addition, two field schools (Exploration Geology and Field Geology) are conducted by the staff in the two weeks immediately following the spring exams. Although the field schools are required in the Honours and Specialization programmes, other Geology students are encouraged to get this field experience, provided they have the necessary prerequisite courses.

Summer Employment

It is strongly recommended that prior to graduation at least one summer be spent in some phase of geological work. Although the Department of Geology cannot guarantee summer employment, its students can normally expect to work in geology during the summer months with government agencies or private exploration companies.

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

GEOLOGY C201
Principles of Geology

The nature, origin and evolution of the universe, stars and of planetary systems: the physical properties of the Earth and its environment; the materials and structures of the Earth's interior and surface, and the processes affecting these regions, such as continental drift, the formation of oceanic basins and mountain building. Lectures only. (3 credits)
NOTE: Science students may not take this course for Science credits.

GEOLOGY C202
Oceanography

Geomorphology of the ocean floor with emphasis on the significance of the midoceanic ridges and trench systems. The physical and chemical characteristics and circulation of ocean waters and their causes. Tides and waves. Distribution and origin of terrigenous, biogenous, chemogenic, volcanogenic and polygenic sediments in the major ocean basins. Conditions of oceanic sedimentation. Quantitative distribution of suspended sedimentary materials at the ocean bottom. Size composition of suspensions and bottom sediments. Economic resource potential of the oceans. Lectures only. (3 credits)
NOTE: Geology students in Honours, Specialization or Major programmes may not take this course for Geology credits.

GEOLOGY C203
Environmental Geology

Geology in the ecosystem. The earth's atmosphere, hydrosphere, lithosphere and biosphere in the geologic time. Long range geological effects of ecosphere pollution. Trace nutrients and health with emphasis on the geology of trace elements and its cause and effect on biological systems. Understanding of, control for, and prevention of natural hazards. Changes in the earth's climate. Role of Geology in land use. Lectures only. (3 credits)
NOTE: Geology students in Honours, Specialization or Major programmes may not take this course for Geology credits.

GEOLOGY C204
Continental Drift

An introduction to the concept of Continental Drift. The origin and development of the theory, the nature of the earth's crust, the ocean floor, and the theory of sea floor spreading. The revolution of the Earth Sciences as a result of widespread acceptance of the concept. Lectures only. (3 credits)
NOTE: Geology students in Honours, Specialization or Major programmes may not take this course for Geology credits.

GEOLOGY C205
Geology of Resources

Rocks and ore minerals. Present and future availability of earth resources. The nature, classification and mode of occurrence of mineral deposits. Exploration, development and rational exploitation of mineral resources. Elements of mining economics. Distribution of oil, gas, coal, and base metal deposits. Evaluation of the effects of mining operations on environment. Lectures only. (3 credits)
NOTE: Geology students in Honours, Specialization or Major programmes may not take this course for Geology credits, except by special permission of the Department.

GEOLOGY C210
Physical Geology

An elementary study of minerals and rocks, and of the internal and external processes which shape the earth's surface. Laboratory work deals with identification of minerals, rocks and fossils, as well as interpretation of topographic and geologic maps. Field trips to Mt. Royal, Eastern Townships and Laurentians. Lectures and laboratory. (3 credits)

GEOLOGY C211
Mineralogy I

Physical and chemical properties of minerals. Crystallography, crystal notation, stereographic projection. Crystal structures. Identification, description and classification of minerals. One or two field trips near Montreal. Lectures and laboratory. (3 credits)

GEOLOGY C212
Invertebrate Paleontology

Prerequisite: GEOL C210 or equivalent. A systematic survey of major invertebrate fossil groups with chief emphasis on morphology, classification and geologic occurrence. Study of principles of evolutionary concepts and zonation. Some selected discussion on paleoecology. Lectures and laboratory. (3 credits)

GEOLOGY C213
Structural Geology

Prerequisite: GEOL C210 or equivalent previously or concurrently; or permission of the Department. Identification and origin of geologic structures. Primary structures. Evaluation of folds, mesostructures, joints and faults. Principles of rock deformation. Laboratory includes interpretation of geologic structures by orthographic and stereographic methods. Several field trips, and structural study of selected areas. Lectures and laboratory. (3 credits)

GEOLOGY C215
Photogeology

Prerequisite: GEOL C213 previously or concurrently, or permission of the Department. Evaluation of rocks, landforms and geologic structures by means of aerial photographs. Principles of photointerpretation and photogrammetry. Introduction to remote sensing. Laboratory: Geological interpretation of stereopairs from Canada and other countries; horizontal and vertical measurements and calculations. Construction of base maps using triangulation methods. Preparation of a geological map with sections and report based on photointerpretation. Lectures and laboratory. (3 credits)

GEOLOGY C216
Exploration Geology

Prerequisite: GEOL C221. Two-week field school right after final exams. The first part of the course is taken up by surveying and map preparation. The second part includes

actual geophysical surveys, using seismic, magnetic, gravity, electrical and radiometric methods. Students will be required to pay for room and board for a one-week period at the Concordia Field School. (3 credits)

GEOLOGY C220
Earth History

The hydrologic cycle and the cycles of erosion; the measurement of geologic time; the history of life on earth and the geologic evolution of North America; glaciation and the ice age; the nature and origin of mineral deposits; the geology of coal, oil and gas; the conservation of natural resources. Lectures only. (3 credits)
NOTE: Geology students in Honours or Specialization may not take this course for Geology credits.

GEOLOGY C221
Physics of the Earth

Prerequisite: CEGEP MATH 103, 203, GEOL C210 or equivalent. This course is directed toward the general understanding of physical phenomena of the solid earth. Subjects for consideration include the following: earth's origin, age, radioactivity, magnetism, gravity field, seismology, heat flow, structure and physical state of the earth's interior, theory of sea-floor spreading, theories of mountain formation. Lectures and laboratory. (3 credits)

GEOLOGY C222
Principles of Geochemistry

Prerequisite: GEOL C201 or C210; and C211. An introduction to geochemistry including the chemical make-up of the solar system and the geochemistry of the atmosphere, hydrosphere, crust, mantle and core. The chemistry of igneous, sedimentary and metamorphic rocks, with some emphasis on the trace elements which characterize each. Anomalous trace element concentrations in rocks, soils and water and the application of geochemistry to mineral exploration. In the laboratory the material discussed in the lectures is illustrated by geochemical calculations, trace element distribution maps and methods of geochemical analysis. Lectures and laboratory. (3 credits)

GEOLOGY C311
Introductory Petrology

Prerequisite: GEOL C211. The identification and description of hand specimens of igneous, sedimentary and metamorphic rocks. Rock associations. Classification and origin of major rock groups. Lectures and laboratory. (6 credits)

GEOLOGY C312
Mineralogy II

Prerequisite: GEOL C211. Point and translational symmetry, point groups, space groups, interpretation of space group tables, elements of crystal chemistry, chemistry and phase relations of important rock forming minerals. Stereographic projections of crystal data; the Universal Stage and powder diffractometry in identifying minerals are subjects stressed in laboratories. Lectures and laboratory. (3 credits)

GEOLOGY C313
Optical Crystallography

Prerequisite: GEOL C211. Behaviour of light in crystals. The optical indicatrix. The polarizing microscope and optical properties of minerals. Identification of non-opaque minerals in oil immersion and thin sections. If time permits, use of the Universal Stage will be introduced. Lectures and laboratory. (3 credits)

GEOLOGY C314
Stratigraphy

Prerequisite: GEOL C212 and C311. Introduction to historical developments of stratigraphic concepts. Role of natural dynamic processes in the evolution of stratigraphic record. Discussion on stratigraphic classification and nomenclature. Major classification of tectonic elements in sedimentary basins and broad patterns in the distribution of sedimentary rocks in relation to tectonic framework. Detailed analysis of stratigraphic principles such as correlation (lithostratigraphic, biostratigraphic, chronostratigraphic), facies (lithofacies; biofacies), unconformities and cyclotherm. Critical evaluation of stratigraphic sequences using modern and ancient examples for the recognition of aeolian, alluvial fan, fluvial, lacustrine tidal flats, barrier coastlines, carbonate shoreline, shallow marine and submarine environments. Lectures and laboratory. (3 credits)

GEOLOGY C315
Tectonics

Prerequisite: GEOL C213, C221. Variations of physical properties in the Earth. Detailed structure of the Upper Mantle. The Crust: crustal types; tectonics of shields, platforms and Phanerozoic fold belts; continental rifts; island arc trench belts; oceanic rises. Critical evaluation of the hypothesis of sea floor spreading. Plate tectonics: critical evaluation of the hypothesis; magma associations; plate reconstructions. Crustal origin and growth. Laboratory work: studies of tectonic maps of crustal types from continents. Lectures and laboratory. (3 credits)

GEOLOGY C316
Field Geology

Prerequisite: GEOL C213 and C311 or permission of the Department. Two-week field work right after the final examination period. Working in groups of two, students will map an area, prepare sections and write a geological report. Group studies of important outcrops or outcrop areas and quarries. Students are expected to pay for room and board. Field Work: 2 weeks in May at the Concordia Field School. (3 credits)

GEOLOGY C322
Geology of Canada

Prerequisite: GEOL C201 or C210 (GEOL C314 or C212/also is recommended). Geologic study of the major geomorphic subdivision of Canada with special emphasis on stratigraphy, correlation, paleogeography, sedimentation and tectonics. Reading assignments and colloquium are used to probe into specific problems. Lectures and Seminar. (3 credits)

GEOLOGY C323
Precambrian Geology

Prerequisite: GEOL C315 (may be taken concurrently). Evolution of the earth in the

Precambrian era. Problems in Precambrian correlation, paleoclimates and structural history. Emphasis on Canadian and North American Precambrian areas. Term paper and Seminars. (3 credits)

GEOLOGY C324
Analytical Methods in Geochemistry

Prerequisite: CEGEP CHEM 201; CEGEP PHYS 301; CEGEP MATH 103 and 203; or equivalent courses. Chemical equilibrium as applied to volumetric and gravimetric procedures; general theory of volumetric titrations; titration curves; application of general titration theory to neutralization precipitation; complexation oxidation-reduction and nonaqueous solvent titrations; theory of potentiometry and potentiometric titrations; theory of gravimetric analysis; methods of separation by chemical and physical means; electrogravimetry and electrolytic separations; absorptimetric theory and absorptimetric methods of analysis. Analyses of major and minor components of geological material. Lectures and laboratory. (6 credits)

GEOLOGY C325
Geostatistics and Computer Applications in Geology

Prerequisite: GEOL C201 or C210 or equivalent. Statistical analysis and computing methods applied to geological problems. Lectures and laboratory. (3 credits)

GEOLOGY C411
Igneous and Metamorphic Petrology

Prerequisite: GEOL C311 and C313. Interpretation of phase diagrams. Mineralogy, fabric and petrogenesis of igneous and metamorphic rocks. Magmatic and metamorphic processes. ACF and AKF diagrams for various metamorphic facies. Study of selected problems. Lectures and Laboratory. (6 credits)

GEOLOGY C412
Economic Geology and Ore Deposits

Prerequisite: GEOL C213 and C311. Part I. The Mining industry and the economic problems related to the industrial revolution. Chemical, physical and structural controls of ore forming fluids. The origin and economic evaluation of ore deposits, coal and oil reservoirs. Industrial minerals. Part II. General classification of ore deposits. Geothermometry and isotope studies. Geology of representative mining districts of the world. Laboratory includes property evaluation, ore and petroleum reserve calculations, ore microscopy, examination of ore suites, term projects. Lectures and Laboratory. (6 credits)

GEOLOGY C413
Sedimentary Petrology

Prerequisite: GEOL C311 and C313. General principles of sediment diagenesis, followed by detail analysis of the diagenetic evolution of sandstone, shale and carbonate rocks. Emphasis is placed heavily on the microscopic criteria in the recognition of diagenetic fabric. Problems of primary sedimentary structures and their hydro dynamic interpretation are also discussed. Specialized topics on current development in sedimentary lithogenesis are also included. Lectures and laboratory. (3 credits)

GEOLOGY C414
Research Project

Prerequisite: Permission of the Department. Honours students in their final year are expected to show competence in isolating and examining a geological problem using techniques available within the department, working in conjunction with assigned faculty advisers. Student evaluation will be based on the student's performance in the investigation and on the written report. Specialization students may also take the course at the discretion of the Department 6 hours per week. (6 credits)

GEOLOGY C421
Exploration Geochemistry

Prerequisite: GEOL C210 and C211 or permission of the Department. Basic principles; primary and secondary dispersion processes and their significance in geochemical exploration; field and analytical techniques (one field excursion early in the fall term); interpretation of geochemical data; organization of exploration programmes; selected case histories. Lectures and laboratory. (3 credits)

GEOLOGY C422
Exploration Geophysics

Prerequisite: GEOL C210, C211 or permission of the Department. A brief study of the principles of magnetic, gravimetric, electric and seismic methods of mineral exploration; interpretation of geophysical data; organization of exploration programmes; selected case histories. Lectures and laboratory. (3 credits)

GEOLOGY C423
Introduction to X-ray Crystallography

Prerequisite: GEOL C312. The nature of X-rays, diffraction, the reciprocal lattice, powder diffractometer, powder cameras, single crystal methods. Laboratory work will stress the techniques of powder diffractometry and precession photography. Lectures and laboratory. (3 credits)

GEOLOGY C424
Engineering Geology

Prerequisite: GEOL C210 or equivalent (GEOL C213 and C215 is recommended). Engineering properties of rocks and soils. Landslides, groundwater, frost action and permanently frozen ground. Application of geology to engineering problems — concrete petrology, tunnels, slope control, foundations, roads, airports, dams and reservoirs. One term paper to be prepared. The laboratory period will include field trips, engineering geology, case histories, and feasibility study of engineering geology problems. Lectures and laboratory. (3 credits)

GEOLOGY C425
Fossil Fuels

Prerequisite: GEOL C314 and C315 or permission of the Department. Origin and accumulation of petroleum hydrocarbons and coal. Distribution of oil, natural gas and coal deposits as a function of geological environments. Geology of major oil and coal fields of the world. Global energy requirements and production forecasts. Lectures only. (3 credits)

31.17 Health Education

Coordinator
M. UPRICHARD, *Professor*

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

66 BA Specialization in Community Nursing (Loyola)

Prerequisite: R.N.

Year I

18 NURS C205[3], HEAL C206[6], C209[3], C211[3], C215[3]

Year II

24 NURS C301[3], C307[3], C320[6], C323[3], C324[6], C325[3]

Year III

24 NURS C415[3], C417[3], C432[6], C435[3], C437[3], C445[3], C447[3]

45 Certificate in Community Nursing (Loyola)

Prerequisite: R.N.

45 NURS C213[3], C301[3], C307[3], C320[6], C323[3], C324[6], C325[3], C415[3], C417[3], C432[6], C435[3], C437[3]

45 Certificate in Health Education (Loyola)

21 HEAL C201[3], C206[6], C209[3], C320[6], C323[3]

24 Elective credits in Health in consultation with the Programme Coordinator.

The Health Education Department offers three Programmes:

1. B.A. Specialization in Community Nursing
2. Certificate in Community Nursing
3. Certificate in Health Education

All three programmes may be taken on a full or part-time basis. A minimum of one course per semester is mandatory in all three programmes.

Both the Certificate in Community Nursing and the B.A. Specialization in Community Nursing are open to registered nurses only. The Certificate in Health Education is open to any student admissible to the University.

NOTE: Nursing courses, as denoted by the prefix NURS, may be pursued only by Registered Nurses enrolled in the Community Nursing programme.

Preregistration: Preregistration is mandatory for all students wishing to register in any of these programmes. Students must make early contact with the Health Education Office to make an appointment with a faculty member for counselling regarding course selection.

Admission Requirements:

1. *B.A. Specialization in Community Nursing and*
2. *Certificate in Community Nursing*
   a) A nursing diploma from an approved school of nursing
   b) An authorization to practise nursing issued by the Order of Nurses of Quebec or equivalent
   c) For any nurse who graduated in 1972 or later, a written declaration from a hospital showing at least one full year of employment as a nurse and indicating the specific nature of that employment
   d) Relevant transcripts should be submitted to the Admissions Office well in advance of registration
   e) All students must be interviewed by a faculty member of the Department before admission
3. *Certificate in Health Education*
   a) Admission to the University
   b) Satisfactory work experience in any aspect of community health

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

Nursing Courses:

NURSING C205
Current Issues in Nursing

An introductory course designed to explore at the local and national level educational and professional concepts of nursing, their similarities and differences and their influence on the changing patterns in nursing. The major intent is to illustrate the relationship between the profession, the impinging pressure to change and nursing's reaction and response to this concept. (3 credits)

NURSING C213
Basic Nutrition

The goal of this course is to provide instruction on theoretical and practical knowledge of normal nutrition. The course content includes: food habits and food ways; psychological, sociological and cultural effects on food habits; the world food crisis; hunger and its effects on people; major nutrients and their interrelationships in human nutrition. The Nutrition Canada Survey assessment of nutrition status will be discussed. Nutrition during the life span; pregnancy and lactation, growth and development, aging and the aged will be described. Weight control, food economics, protection of food supply, food fads and

fallacies will be examined. (3 credits)
NOTE: This course is not available to students who have received credit for an equivalent course.

NURSING C301
Pharmacology for Nurses

Prerequisite: Heal C206 or equivalent. This course is designed to introduce nurses to the basic concepts of drug pharmacokinetics, as the basis for rational therapeutics. The major drug classes will be reviewed, emphasizing those drug effects that are important for the Registered Nurse in providing modern therapeutic care. Stress will be made on the importance of collaboration between professions for the better care of the patient. (3 credits)

NURSING C307
Pharmacology: The Nurse's Role in the Community

Prerequisite: NURS C301. The purpose of this course is to apply the principles of pharmacodynamics and pharmacokinetics given in NURS C301 to individual and community health problems. The course content includes identification and discussion of major drug classes: hormones, contraceptives, psychotropic drugs, alcohol, opiates, barbiturates, stimulants, hallucinogens, nicotine, antibiotics, etc. The consequences of drug use and abuse in personal, family and community life, as well as the nurse's role will be considered. (3 credits)

NURSING C320
(Also given as Health C320)
Interviewing Techniques and Counselling Concepts

Prerequisite: HEAL C209 or equivalent. A course in which the student examines the dynamics of helping interviews, models of human effectiveness, and theories of counselling. The variety of issues to be covered include the enhancement of specific skills through different training experiences, a proper emphasis on self-understanding, an awareness of the role of philosophy, ethical standards and research. This course demands a high level of observation, participation and involvement from each student. (6 credits)

NURSING C323
(Also given as Health C323)
Teaching Strategies for the Health Professional

Prerequisites: HEAL C209 and NURS C320, or permission of the Programme Coordinator. This course is designed to meet the needs of individuals who are involved in education programmes, i.e., schools, industry, clinics, volunteer agencies, in-service programmes, etc., aimed at promotion and maintenance of health, prevention of disease, and rehabilitation. (3 credits)

NURSING C324
Pathophysiology

Prerequisite: HEAL C206. This course will study body systems and the common diseases which attack them. Normal and abnormal functioning will be compared; e.g. the circulatory system and heart disease. Stress will be laid upon control and prevention. The systems to be discussed are: digestive, excretory, endocrine, circulatory, nervous, musculatory and respiratory. (6 credits)

NURSING C325
Community Nutrition

Prerequisite: NURS C213 or equivalent, NURS C323. This course will apply basic nutrition knowledge to the problems of nutrition in the community. It will prepare students to act as facilitators of change in the food habits of their clients and assist them to practise clinical evaluation of nutrition through field work under supervision. Existing community programmes and resources to improve nutritional status will be evaluated. (3 credits)

NURSING C393
Anthropological Concepts in Nursing

This course is an introduction to anthropological concepts relevant to nursing problems and an explanation of the application of these concepts. The cross-cultural perspective on health attitudes, illness behaviour and medical practices is of particular interest to nurses providing service to culturally diverse communities and to third-world medical aid programmes. No previous anthropology is required. (3 credits)

NURSING C394
Selected Topics in Nursing

Prerequisites: As determined by the Programme Coordinator. A student may repeat Nursing C393, provided that the content is different, by registering for credits under Nursing C394. (3 credits)

NURSING C395
Leadership and Community Change

Prerequisite: HEAL C209 and NURS C320 or equivalent. This course examines a variety of leadership styles and the effectiveness of each in producing social change. Students learn methods of determining when social change is needed and methods of planning, implementing and evaluating interventions designed to produce such changes. (3 credits)

NURSING C415
Community Nursing I: Nursing Assessment

Prerequisite: HEAL C215 and NURS C320. This course is designed to help students to learn to make comprehensive community nursing care plans. Such plans require understanding of the ethnic, cultural, demographic and socio-economic influences upon the lives of people and of the methods for collecting data with which to assess the health needs of the individuals and families comprising a community. (3 credits)

NURSING C417
Community Nursing II: Roles in Intervention

Prerequisite: NURS C323 and NURS C415. In this course students study the concerns of governments, educational institutions and health agencies with the prevention of disease and the promotion of health. They learn ways in which nurses may intervene to help individuals and families to adopt healthful life styles. (3 credits)

NURSING C431
School Health Nursing

Prerequisite: NURS C430. This course presents the health needs of school pupils and personnel. It explores the responsibilities

of provincial and local Departments of Health, the school authorities and the school personnel and nurse in meeting these needs. It assists nurses to plan programmes of health services, health education and healthful school living for various levels and types of schools, to inaugurate such programmes and to coordinate the efforts of schools and community agencies to promote health and prevent illness in schools. (3 credits)

NURSING C432
Primary Care: The Nurse's Role

Prerequisite: NURS C301, C324 and C325. This is the final course required for the degree in Community Nursing. It seeks to give students the knowledge and skills needed to apply their previous learnings to the assessment of a client's health status and his referral, when needed, to other suitable health professionals. It will concentrate on screening processes, obtaining meaningful health histories and on problems and means of making wise referrals. Students intending to practise these skills in the community may choose an experiential project in NURS C445 or C447. (6 credits)

NURSING C433
Nursing the Elderly

Prerequisite: NURS C320 and C329. This course provides a study of the physiological and psychological adjustments necessary to adapt a life style to the later years of life. It attempts to assist students to make an accurate assessment of a client's physical, social and emotional condition, use available health resources to maintain or restore health, and to develop guidelines for home care, health counselling, referral to other health professionals and follow-up. (3 credits)

NURSING C435
Family Structure and Health Care Delivery I

Prerequisite: NURS C417. This course is concerned with the life cycle of the family structure, the interaction between the ever-changing family relationships and the health system, and the influence of health and disease upon these relationships. (3 credits)

NURSING C436
Family Structure and Health Care Delivery II

Prerequisite: NURS C435. Building on the theoretical knowledge of NURS C435, this course emphasizes home visiting, patterns of home care, process recording, teaching families to know and use suitable community agencies. Stress is placed on knowledge of healthful life styles as a means of preventing illness. (3 credits)

NURSING C437
Occupational Health Nursing

This course will deal with the relation of doctor and nurse, employer and employee; management and the health department. Also the role of the nurse today and tomorrow in our rapidly changing society. Instruction will consist of lectures, group discussion and practical applications through field work and simulation. (3 credits)

NURSING C445
Nursing Practicum I

Prerequisite: Permission of the Programme Coordinator. In cooperation with a Tutorial Adviser, the nurse will choose a field of interest within the health care system for fieldwork. The student will have freedom to choose how quickly the practicum requirements are satisfied. There will be no final exam. Students will submit a written report at the end of the term based on the learning objectives established with the adviser at the beginning of the course. (3 credits)

NURSING C447
Nursing Practicum II

Prerequisite: NURS C445. In cooperation with a Tutorial Adviser, the nurse will choose a field of interest within the health care system for fieldwork. The student will have freedom to choose how quickly the practicum requirements are satisfied. There will be no final exam. Students will submit a written report at the end of the term based on the learning objectives established with the adviser at the beginning of the course. (3 credits)

NURSING C495
Advanced Topics in Nursing

Prerequisites: As determined by the Programme Coordinator. The theme will vary according to the special interests of the professor and the needs of the students. The course is designed to provide students with the opportunity to take advantage of the special interests and expertise of a professor and to develop this knowledge and these abilities in an area not covered in the programme. (3 credits)

NURSING C496
Advanced Topics in Nursing

Prerequisites: As determined by the Programme Coordinator. A student may repeat Nursing 495, provided that the content is different, by registering for credits under Nursing 496. (3 credits)

NURSING C497
Advanced Topics in Nursing

Prerequisites: As determined by the Programme Coordinator. The theme will vary according to the special interests of the professor and the needs of the students. The course is designed to provide students with the opportunity to take advantage of the special interests and expertise of a professor and to develop this knowledge and these abilities in an area not covered in the programme. (3 credits)

NURSING C498
Advanced Topics in Nursing

Prerequisites: As determined by the Programme Coordinator. A student may repeat Nursing C497, provided that the content is different, by registering for credits under Nursing 498. (3 credits)

Health Education Courses:

HEALTH EDUCATION C201
Cell Functions in Health and Disease

An introductory course of cell physiology relating cell function to disease. The following topics will be covered: red blood cells and anemias, blood typing and tissue matching, bacteria and immunity, genetics and hereditary disease, protozoa and parasitic diseases, viruses and viral infections. (3 credits)

HEALTH EDUCATION C206
Applied Human Physiology

Prerequisites: R.N., CEGEP Biology or Biology C201, or equivalent. A course on the functions of the human body. A detailed analysis of homeostasis from a systems approach will be given. Physiological processes as applied to clinical testing will be described. (6 credits)

HEALTH EDUCATION C208
Nutrition in the 80's

This course will study the influence of socio-economic and political systems on the nutritional status of the individual and the interrelationship between food habits and the cultural, social and psychological aspects of life. Topics will include diet-related problems such as obesity, heart disease, faulty eating habits, malnutrition. Food budgeting for all levels of the socio-economic structure will be examined. (6 credits)

HEALTH EDUCATION C209
Personal Interrelations

This course is designed to provide an orientation to the field of interpersonal relationship and human awareness, focusing particularly on relating to and working with other people. Concepts of personal growth and development will be highlighted. (3 credits)
NOTE: This course may be taken only by students registered in the Health Education or Nursing Programmes.

HEALTH EDUCATION C211
Clincial Epidemiology and Biostatistics I

The purpose of this course is to present the concepts and methods of epidemiology as they are applied to a variety of disease problems. Emphasis is placed on the integration of biological and statistical elements in the sequence of epidemiological reasoning that derives inferences about the etiology of disease from population data. The course will concentrate on epidemiology of infectious disease and the measurement of health status in a community. (3 credits)
NOTE: This course may be taken only by students registered in the Health Education or Nursing Programmes.

HEALTH EDUCATION C215
Clinical Epidemiology and Biostatistics II

Prerequisite: HEAL C211. This course is designed to follow HEAL C211. Necessary statistical methods for conducting and analyzing epidemiological studies will be further described. Retrospective and prospective studies are defined and described. Their impact as a means of determining association between etiological factors and disease will be discussed. The advantages and disadvantages of these methods of investigations will be compared. Classical epidemiological experiments and clinical serials will be reviewed. These will be analyzed in the context of health care research. (3 credits)
NOTE: This course may be taken only by students registered in the Health Education or Nursing Programmes.

HEALTH EDUCATION C251
Hunger in the Classroom: The School's Role

Review of evidence indicating existence of malnutrition in schools in Quebec. Followed by discussion of observable effects of hunger and malnutrition in the classroom. Discussion of various programs and approaches by the school administration, the school board, the teachers, nurses, etc., taken to alleviate the problem. Topics of discussion will include: Action for school lunches — Malnutrition — learning and behaviour — Nutrition education program. (3 credits)

HEALTH EDUCATION C261
Community Health Information

This course will investigate the formal and informal patterns in Health Education. This information will be applied to plan pertinent programmes that serve society. Data collected will be used in curriculum planning exercises and programme development within formal educational systems such as schools and CEGEPs, in such areas as cardiovascular disease, anti-smoking clinics, family life education. (3 credits)

HEALTH EDUCATION C270
School Health Services Seminar

The seminar will deal with current issues of school health, nationally and locally and their effect on our present school health programmes. It will consider the interrelation of the school administrators, the family, community and health professionals in utilizing existing resources for a more efficient distribution of health care to school age children. The need for leadership, group participation and community cooperation in defining and dealing with priorities will be demonstrated through a medium of case studies and problem solving techniques. (6 credits)

HEALTH EDUCATION C319
Drug Use and Abuse

The course is structured to introduce non-medical personnel to the modern concepts of drug therapeutics, and to discuss the consequences of use and abuse of drugs. The drug classifications will include steroids, antibiotics, minor and major psychotropics and the potential chronic abuse of drugs such as amphetamines and other stimulants, barbiturates and other sedatives, hallucinogens, minor tranquilizers, opiate narcotics, alcohol and tobacco. (3 credits)

HEALTH EDUCATION C320
(Also given as Nursing C320)
Interviewing Techniques and Counselling Concepts

Prerequisite: HEAL C209 or equivalent. A course in which the student examines the dynamics of helping interviews, models of human effectiveness, and theories of counselling. The variety of issues to be covered include the enhancement of specific skills

through different training experiences, a proper emphasis on self-understanding, an awareness of the role of philosophy, ethical standards and research. This course demands a high level of observation, participation and involvement from each student. (6 credits)
NOTE: This course may be taken only by students registered in the Health Education or Nursing Programmes.

HEALTH EDUCATION C323
(Also given NURS C323)
Teaching Strategies for the Health Professional

Prerequisites: HEAL C209 and NURS C320, or permission of the Programme Coordinator. This course is designed to meet the needs of individuals who are involved in education programmes, i.e., schools, industry, clinics, volunteer agencies, in-service programmes, etc., aimed at promotion and maintenance of health, prevention of disease, and rehabilitation. (3 credits)

HEALTH EDUCATION C331
Health Professional Role in Pre- and Post-Retirement

This course will investigate the needs, motivation, level of interest of individuals considering sex, age, education, culture, environment, socio-economic status or life experiences. It will determine the role of adequate health care, family interaction, community support, short and long term planning in dealing with the identified needs. The course will provide an opportunity for the student to investigate legal, economic and social aspects in developing programmes that are realistic within our present society. (3 credits)

HEALTH EDUCATION C397
Selected Topics in Health Education

Prerequisites: As determined by the Programme Coordinator. The theme and the methodology will vary according to the special interests of the professor and the needs of the students. The course is designed to provide students with the opportunity to extend their studies beyond the subjects already included in the curriculum. (3 credits)

HEALTH EDUCATION C398
Selected Topics in Health Education

Prerequisites: As determined by the Programme Coordinator. A student may repeat Health C397, provided that the content is different, by registering for credits under Health C398. (3 credits)

HEALTH EDUCATION C401
Public Health Administration

The basic objective of this course is to make the student aware of the administrative structure of the health care system in the Province of Quebec and elsewhere. Emphasis will be centered around the planning of health care programmes, health economics and various health administrative systems commonly used today. Case analysis will be used to study the solving of health administrative problems. (3 credits)

HEALTH EDUCATION C403
The Law and the Health Professional

This course is designed for nurses, other health professionals and administrators working in various health services. The content includes an analysis of Quebec and Canadian Law, civil and criminal liability and how it affects the health workers, the legal status of a hospital corporation and a community clinic and their interior workings. This course will also provide discussions of patients' rights, informed consent to treatment, recent Canadian court decisions on malpractice and other subjects of interest to the students. (3 credits)

HEALTH EDUCATION C408
Group Structure and the Role of the Community Worker

The course is developed to assist volunteers, interested citizens, street workers, and individuals with no formal health training, but working as a part of a multidisciplinary team, to identify their roles in order to play a more effective part as a community worker. Assignments will be directed toward practical applications of field work to problem-solving in a field of their choice: i.e., post-retirement, rehabilitation of drug addicts and alcoholics, single parents, etc. (6 credits)

HEALTH EDUCATION C410
Community Mental Health

This course will explore the historical and traditional models of mental health as they relate to the more progressive model of community mental health. The intent is to gain some knowledge of topics of concern within the community: crisis and suicide prevention, how to handle specific situations such as problems in a school, industry, home and clinical setting. The course is structured for people in the helping professions: nurses, social workers, counsellors, teachers, nutritionists, etc. (6 credits)

HEALTH EDUCATION C418
Current Health Issues

Prerequisite: HEAL C261. This course deals with areas selected for their epidemiological importance in the understanding of modern health problems. Implications of human ecology, pollution and environment on disease outcomes will be described. (6 credits)

HEALTH EDUCATION C472
Special Workshop on Human Sexuality

The course investigates "Psychological Concepts of Human Sexuality as they influence Family Planning and Sex Education." The study will explore variations in sexual patterning, therapy and counselling, biological, anthropological and ontological perspectives of sexuality. Open to educators, guidance counsellors, nurses, social workers and psychologists. (6 credits)
NOTE: This course may be taken only by students registered in the Health Education or Nursing Programmes.

31.18 History

Chairman
S. J. SCHEINBERG, *Associate Professor*

Professors
A. H. ADAMSON
J. F. LAFFEY
E. E. McCULLOUGH
J. C. NISH
C. B. O'KEEFE, S. J.
L. ROTHKRUG
G. RUDE
R. E. WALL
R. WILBUR

Adjunct Professor of History and Social Sciences
SENATOR THERESE CASGRAIN

Visiting Professors
W. CHEEK
M. TAMARKIN

Associate Professors
F. G. W. ADAMS
C. L. BERTRAND
F. BODE
F. R. CHALK
R. T. COOLIDGE
M. G. DECARIE
R. J. DIUBALDO
D. GINTER
J. L. HILL
W. H. HUBBARD
F. H. KRANTZ
M. MASON
I. H. SMITH
M. SINGER
R. TITTLER
M. J. VIPOND

Assistant Professors
R. RUDIN
V. STRONG-BOAG
W. VAN NUS

Assistant Professor of Classics and History
F. E. SHLOSSER

Lecturer
K. BINDON

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Honours in History

The following courses in an approved sequence constitute Honours in History. Students intending to enter the Honours programme are advised to consult with the Department.

*6 History C201[3] and C202[3], or History C218[6]
*6 History C203[3] and C205[3]
*6 From surveys in United States, Asian, African or Latin American History
6 History C200[6]
12 History electives at 300 level
6 History electives at 400 level
6 History C493[6]
6 History electives at 300 or 400 level, or related course in another department (with approval from Department of History)
6 History electives at 400 level or related courses in another department (with approval from Dept. of History)

72 BA Joint Honours in English and History

6 Chosen from ENGL C256 through C284
6 Chosen from ENGL C286 through C305; C376[6], C377[6], C390[6], C392[6]
6 ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]
12 ENGL credits chosen from two different periods to parallel History courses to be chosen in consultation with the departments
6 ENGL or HIST elective credits
12 HIST credits to parallel ENGL courses in consultation with the Departments
12 HIST Honours Seminars
6 HIST elective credits
6 ENGL C490[6] or HIST C490[6]

72 BA Joint Honours in French and History

30 French credits:
6 Chosen from FRAN C270[3], C271[3], C320[6], C321[3], C322[3]
6 FRAN C251[6]
6 18th Century French Literature
6 19th Century French Literature
6 20th Century French Literature
30 History credits:
18 HIST C209[3], C210[3], C329[6], C344[6]
12 HIST C430[6], C436[6]
6 Elective credits in French or History
6 HIST C496[6] or FRAN C498[6]

72 BA Honours in Philosophy and History

Year I
6 HIST C218[6]
6 Chosen from PHIL C201[3] and C223[3], C202[6], C221[6]
Year II
6 HIST C390[6] or PHIL C352[6] in consultation with the Philosophy or History Department.
12* Chosen from HIST C328[6], C330[6], C334[6], C336[6]
6 Chosen from PHIL C241[6], C244[6], C313[6], C460[6]
6 Chosen from PHIL C310[6], C341[6], C412[6]
Year III
6 HIST C493[6]
6 Chosen from PHIL C345[6], C417[6], C485[6], C486[3], C488[3]

6 HIST elective credits at 400 level in consultation with the Departmental Honours Adviser
6 Chosen from PHIL C348[6], C456[6], C471[3], C472[3], C493[6]
6 PHIL elective credits at 300 or 400 level in consultation with the Departmental Honours Adviser
** 6 of these credits may be taken in Year III*

66 BA Honours in Religion and History

Pattern A (Asia)
30 HIST C218[6], C261[6], C337[6], C363[6], C390[6]
24 RELI C213[6], C311[6], C312[6], C313[6]
12 SOCI C200[6], C337[6]
NOTE: With the approval of the Honours Adviser, any 6 credits at '400' level in HIST or RELI may be substituted for any specific course.

Pattern B (Europe)
12 HIST C218[6], C390[6]
6 Chosen from RELI C211[6], C213[6]
48 Chosen from HIST C322[6], C327[6], C330[6], C334[6]; RELI C327[3], C328[3], C330[3], C361[6], C362[6], C443[6]; SOCI* S210[6], S424[6]
**Students taking SOCI C200 in Honours programme must also take SOCI C337*

60 BA Specialization in History

*6 History C201[3] and C202[3] or History C218[6]
*6 History C203[3] and C205[3]
*12 From surveys in United States, Asian, African or Latin American history
18 History electives at any level
6 History electives at 400 level
12 History electives or related courses in another department (with approval from Department of History)

60 BA Specialization in English and History

6 Chosen from ENGL C256 through C284
6 ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]
12 ENGL credits chosen from two different periods to parallel History courses to be chosen in consultation with the departments
6 ENGL elective credits
12 HIST credits chosen from two different historical periods to parallel English courses to be chosen in consultation with the departments
18 HIST elective credits

42 BA Major in History

*6 History C201[3] and C202[3], or C218[6]
*6 History C203[3] and C205[3]
*6 From survey courses in United States, Asian, African or Latin American history
6 History electives at any level
18 History electives at 300 or 400 level

24 Minor in History

*6 History C201[3] and C202[3] or C218[6]; or C203[3] and C205[3]
6 History electives at any level
12 History electives at 300 or 400 level

** Students will be exempted from these courses if it can be shown that comparable courses were taken in CEGEP. The student will be required to take 6 credits from History electives in their place. In the major and Honours programmes, a student who is exempted from History C201, C202 or C218 and from History C203, C205 is encouraged to take a course in Asian, African or Latin American history.*

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses

Survey courses

HISTORY C200
The Nature and Practice of History

This course, open only to History students, will address itself to two types of concerns. Students will examine the nature of historical enquiry: its varieties, purposes, traditions, and its place in contemporary society. In addition, they will receive systematic introduction to the practical aspects of critical scholarship: the use of the library, methods of research, and forms of writing critical essays. (6 credits)

HISTORY C201
Introduction to European History to 1789

A survey of the history of Europe to the French Revolution with emphasis on the development of ideas and political institutions. (3 credits)

HISTORY C202
Introduction to European History, 1789-to the Present

A survey of the history of Europe from the French Revolution to the present with emphasis on the development of ideas and political institutions. (3 credits)

HISTORY C203
History of Canada, Pre-Confederation

A survey of Canadian history, from settlement to Confederation, which emphasizes readings and discussions on selected problems. (3 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

HISTORY C205
History of Canada, Post-Confederation

A survey of Canadian history from Confederation to the present, which emphasizes readings and discussions on selected problems. (3 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

HISTORY C208
Native Peoples of Canada

This course examines the Canadian Native experience from a multi-disciplinary perspective including history, law, education, the arts, etc. Focusing on Eastern Canada and in particular, Quebec, it attempts to understand the Native experience and contemporary situation. Indians, Inuit and people who work with them are invited to speak on topics related to their special interest. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

HISTORY C209
Quebec to 1867

An introduction to the social, economic and political history of Quebec prior to Confederation. (3 credits)

HISTORY C210
Quebec Since Confederation

An introduction to the social, economic and political history of Quebec since 1867. (3 credits)

HISTORY C218
History of Europe in the Modern World

A survey of the history of European civilization. An attempt is made to present and analyze in an integrated way all aspects of European society and culture in its rise to a dominant world position. (6 credits)
NOTE: Students who have taken History C201 or C202 will not receive credits for this course.

HISTORY C219
(Also given as Classics C230)
The Ancient Near East I

A survey of the political, social, economic and intellectual history of the Ancient Near East from the Neolithic age to the Indo-European invasions of the early 2nd Millennium with special emphasis placed upon the problem of the emergence of civilization in Mesopotamia, Egypt and the Indus valley. Ancient sources utilized wherever possible. (3 credits)

HISTORY C221
(Also given as Classics C231)
The Ancient Near East II

A survey of the political, social, economic and intellectual history of the Ancient Near East from the Indo-European invasion of the early 2nd Millennium to the establishment of the Persian empire with special emphasis placed upon the process of diffusion of civilization throughout the Near Eastern World, the creation of Egyptian, Mesopotamian and Persian Imperialism and the development of Hebrew monotheism. Ancient sources utilized wherever possible. (3 credits)

HISTORY C223
(Also given as Classics C240)
Greek History I

A political, social, economic and cultural history of Greece from Minoan — Mycenaean times to the end of Classical Greek civilization in the 4th century B.C., with special emphasis placed upon 5th century Athens. (3 credits)

HISTORY C224
(Also given as Classics C241)
Greek History II

A political, social, economic and cultural history of the Greek World from Alexander the Great to the Roman conquest of Greece in 146 B.C. While due attention will be paid to developments within the Hellenistic Kingdoms and to the later Greek achievements in art, literature, science, philosophy and religion, the process of fusion of Hellenism with the orient — vital for the evolution of Judaism, Christianity and Islam — will be extensively explored. (3 credits)

HISTORY C225
(Also given as Classics C242)
Roman History

A political, social, economic and cultural history of Rome from the city's origins to the establishment of the Roman Empire under the Emperor Augustus. (3 credits)

HISTORY C227
(Also given as Classics C264)
An Introduction to Archaeology

Archaeology as a science: its purpose, methods, theories, and techniques. The relationship of Archaeology to Pre-History, Ancient History, Fine Arts, and Anthropology. The Neolithic Revolution and the emergence of the earliest civilizations: Mesopotamia, Egypt, India and China. The Bronze Age in Crete and in Greece. Most of the course will consist in the presentation, classification, dating, and interpretation of selected artifacts. Some work at the Montreal Museum of Fine Arts. (3 credits)

HISTORY C229
(Also given as Classics C265)
Greek and Roman Art and Archaeology

The archaeology of Greece and Rome with particular attention to painting (especially ceramics), sculpture, and architecture. The concept of "style" in archaeology and in art history and criticism. The works of Exekias and Douris, of Phidias and Praxiteles, and of Iktinos and Kratinos as representative of the "ideal" in Classical Greek Art. The Greek and Etruscan influence on Roman Art as well as the native Roman contribution. The falsifications of history and the truth that can be recovered by the archaeologist. Some work at the Montreal Museum of Fine Arts. (3 credits)

HISTORY C231
The World Since 1914

A discussion of the main trends of world history — political, diplomatic, socio-economic and cultural — since World War I. Special attention will be given to European developments. (6 credits)

HISTORY C251
History of the United States to 1877

Survey of American history from settlement to 1877. The course will deal with the political and economic framework of American history, and with social and cultural trends. (3 credits)

HISTORY C253
History of the United States Since 1877

Survey of American history from 1877 to the present. The course will deal with the political and economic framework of American history, and with social and cultural trends. (3 credits)

HISTORY C261
History of India

An introduction to the intellectual traditions, social structures and political institutions of South Asia, with particular attention to developments during the past two centuries. (3 credits)
NOTE: This course may be taken for credits in the Asian Studies Programme.

HISTORY C262
History of China

A survey of China's history from earliest times to the modern era. (3 credits)
NOTE: This course may be taken for credits in the Asian Studies Programme.

HISTORY C263
History of Japan

A survey of Japan's history from earliest times to the modern era. (3 credits)
NOTE: This course may be taken for credits in the Asian Studies Programme.

HISTORY C270
An Introduction to the History of North and West Africa in the 19th and 20th Centuries

This course will focus on the relationship between western imperialism and indigenous political, economic, social and religious developments from c. 1800 to c. 1960. Students will be encouraged to consider specific themes such as the development of the indigenous working class, the role of local entrepreneurs and the place of local elites in the process of change. (6 credits)

HISTORY C272
An Introduction to the History of Central, South and East Africa in the 19th and 20th Centuries

This course will focus both on the origins and development of indigenous African trade and politics and on those of the European settler societies. Emphasis will be placed on the effects on African societies of the development of the European and Afrikaaner-dominated mining and agricultural economies. The theme of African political resistance will especially be stressed. (6 credits)

HISTORY C280
Historical Perspectives on Contemporary Issues

A thematic and comparative historical approach to contemporary issues. The course will cross national boundaries to consider major current problems from a variety of historical perspectives. (6 credits)

HISTORY C281
(Also given as Political Science C321)
The Middle East in World Politics

May be taken either as a History or a Political Science course. Islamic Heritage: Nationalism, Zionism and Contemporary Problems (Arab-Israeli Conflict: U.S.A. -U.S.S.R. Power Struggle). (3 credits)

HISTORY C283
(Also given as Political Science C339)
Mid-East Political Systems

May be taken either as a History or a Political Science course. A comparative study of a selected number of Mid-East Governments (Turkey, Egypt, Libya, Syria, Iraq, Lebanon, Israel, Jordan, Saudi Arabia and Yemen). (3 credits)

Intermediate

HISTORY C302
Approaches to Canadian History

In this course, students will examine the many types of sources for Canadian History, including photographs, songs and advertisements, as well as more commonly used sources such as newspaper reports, diaries, and parliamentary records. Students will be encouraged to carry out research and writing in areas of personal interest using original sources. (6 credits)

HISTORY C304
Protest Movements in Canada Since Confederation

An examination of the social and intellectual origins of political protest in Canada since 1867. Topics will include agrarian revolt, labour organization and sectional discontent, with emphasis on such third parties as Canada First, Progressive Party, C.C.F., Social Credit, Union Nationale and Parti Québecois. (6 credits)

HISTORY C305
The Ideologies of French Canada

A study of the ways in which francophone Canadians have seen their societies and their roles in Canada. While the course will emphasize the francophones of Quebec, some time will be spent on those who live in such other parts of Canada as New Brunswick and the West. (6 credits)

HISTORY C306
The Indian in Canadian History

Survey of Amerind history from 1500 to the present day. Students will be encouraged to carry on further studies in areas of special interest. (3 credits)

HISTORY C307
History of Montreal

A study of the origins of the city, its role in the Empire of the St. Lawrence, and its rise to metropolitan dominance in Canada. Special emphasis on economic development and on ethnic groupings. (3 credits)

HISTORY C308
History of English-Speaking Quebec

An analysis of the experience of the different groups which have made up this community, from the Conquest to the present. (3 credits)

HISTORY C309
History of the Canadian North

An intensive study of the advance of the northern frontier of Canada, with emphasis on the period 1840-1945. The course will stress exploration, problems of sovereignty, conflict of cultures, and economic development. (3 credits)

HISTORY C310
Politics and Economics of Canadian Development

This course will deal with the impact of both economic and political forces upon the development of the Canadian economy from the French régime to the present. (6 credits)

HISTORY C311
British North America

An advanced study of British North America from the conquest to the early years of Confederation. The course will focus on topics and problems organized according to the regions of British North America. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

HISTORY C312
Canada in the 20th Century

An intensive study of the political, eco-

nomic, social and cultural development of modern Canada. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

HISTORY C313
French Canada to 1763

An intensive study of French Canada during the colonial régime. Much of the material will be in French. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

HISTORY C314
French Canada: 1763-1867

An intensive study of French Canada from the Conquest to Confederation. Much of the material will be in French. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

HISTORY C315
Quebec: 1867 to the Present

An intensive study of Québec since Confederation. While due attention will be paid to the political history of Québec, the purpose of the course is to provide a study of the social, economic and cultural institutions of Québec. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

HISTORY C317
Canada Views the United States

An examination of Canadian attitudes to the United States from 1776 to the present, with respect to both specific incidents and general trends. Emphasis will be placed on the discussion of primary source material. (3 credits)

HISTORY C318
Women in Western History

A review of the position and roles of women in Western history prior to the 17th Century. Beginning with the 17th Century, a more detailed discussion of these themes and close scrutiny of selected problems having to do with the roles of women in Europe, Canada and the United States during the last two centuries. Among the problems to be treated will be the history of the Feminist movements, the relationship of women to the process of industrialization and the impact of the world wars of this century on the condition of women. (6 credits)
NOTE: This course may be taken for credits in the Women's Studies Programme.

HISTORY C319
A Literary History of 20th Century Canada

An examination of some of the major themes of Canadian history in the 20th Century as seen by Canadian novelists, English and French. Themes studied will include the struggle for survival; regional, ethnic and religious plurality; and the response to urbanization and industrialization. (3 credits)

HISTORY C320
(Also given as Classics C343)
History of the Roman Empire

A political, social, economic and cultural history of the Roman Empire from Augustus to Justinian the Great. Attention will be paid to the rise of Christianity and the continuity of Roman law and administration in both the eastern and western parts of the Late Roman Empire. (6 credits)

HISTORY C321
(Also given as Classics C346)
Continuity and Change: An Intellectual History of the Late Roman Empire

A study of the main intellectual and social forces in the late Roman Empire that contributed most significantly to the formation of European culture. Among those topics treated will be: Neo-Platonism, Gnosticism, the Greek and Roman system of education, government and private welfare policies, mystery religions, late Judaism, early Christianity, the religious policy of pagan and Christian Emperors, contemporary art and architecture. (6 credits)

HISTORY C322
History of Mediaeval Europe

A study of the society and institutions of mediaeval Europe from the fall of Rome to the end of the 15th century. (6 credits)

HISTORY C324
History of Byzantium, 602-1453

A survey of the transformation from Late Roman Empire into the Byzantine commonwealth and changes in economic and social conditions. Special attention is given to the reorganization of administrative and military structures, the relationship between Byzantium and its Balkan neighbors, the Arab conquest and the rising importance of Asia Minor. (6 credits)

HISTORY C325
Renaissance Europe

This course explores the elements of transition between the Mediaeval and Early Modern World in Western Europe, with special reference to the cultural experiences of the Italian Peninsula. Particular attention is devoted to the traditions of scholarship, education, political and social thought, and cultural expression which one usually associates with the period, and such figures as Petrarch, Donatello, Salutati, Lorenzi di Medici, Castiglione, Machiavelli, and Michelangelo. (3 credits)

HISTORY C326
History of the Reformation

An examination of the late Mediaeval context for the European Reformation, the Reformation itself, and the significance of the Reformation for the development of Western thought and society. Particular attention to the intellectual and behavioural reactions to the disintegration of Mediaeval society, as well as to the traditions of Luther, Zwingli, Calvin and others who comprise the mainstream of Reformation ideas. The growth of toleration, the relations of church and state, and analogies with communal groups in our own society will also be examined. (3 credits)

HISTORY C327
History of Early Modern Europe, 1400-1640

European history in the Renaissance and Reformation periods. Special attention is given to the shift from Mediaeval to Renaissance civilization in Italy and to the development of early modern societies in Northern Europe. Specific analytical focus is placed on

studying the nature of, and relationships between, premodern economic, social and cultural structures. Issues involved in the transition to modern societies on different national bases are also stressed. (6 credits)

HISTORY C328
Social and Intellectual History of Early Modern Europe

A study of change and continuity in European society and culture, 1300-1650. Problems studied include feudal-capitalist relationships, the Italian Renaissance, Northern State Development, Protestant Reformation, Scientific Revolution and European Colonial expansion. Methodological issues will be emphasized. (6 credits)

HISTORY C329
The Ancien Regime, 1660-1789

An historical survey of this period and a study of selected themes and problems: the cultural and political supremacy of France; the strength and weakness of absolute government as seen in the reign of Louis XIV; the resurgence of the nobility; unrest and social and economic reform; contemporary appraisals of the Ancien Régime. (6 credits)

HISTORY C330
Europe 1640-1848

European history in the age of the French Revolution, including a study of the scientific and industrial revolutions. (6 credits)
NOTE: This course may be taken for credits in the Science and Human Affairs Programme.

HISTORY C331
Social History of 17th Century Europe

A study of social trends in 17th century Europe with emphasis on the elements of tradition and transition in institutions, classes, and orders. (3 credits)

HISTORY C332
Social History of 18th Century Europe

A study of social trends in 18th Century Europe with emphasis on the elements of tradition and transition in institutions, classes, and orders. (3 credits)

HISTORY C333
Problems in Church and State in Modern Europe

An examination of some of the important themes in Church and State relations in Europe with emphasis on Early Modern Europe. Some of the themes to be discussed are: the changing theory in church and state relations; the growth of secularization; the development of the notion of religious tolerance; established churches and social unrest. (6 credits)

HISTORY C334
Social and Intellectual History of Modern Europe

The intellectual systems arising in Europe since the 17th Century will be explored in the context of the economic and social circumstances which engendered them. This course will begin with the rise of theories of "possessive individualism" and will end with the contemporary cultural crisis. While attention will be paid to the general dynamics of culture, special attention will be devoted to the social functions of particular ideologies. (6 credits)

HISTORY C335
Europe 1848-1918

A study of the internal development and external relations of the most important states of Western Europe from 1848 to 1918. (6 credits)

HISTORY C336
Europe Since 1918

A study of the internal development and external relations of the Western States of Europe from 1918 to the present. (6 credits)

HISTORY C337
Europe and the Industrial Revolution: The Origins of Modern Society

An examination of change and stability in the social and economic structure of Europe during the first age of industrialization, c. 1760 to c. 1900. (3 credits)

HISTORY C338
European Society and Economy in the Twentieth Century: The Crisis of Capitalism

An examination of stability and change in the social and economic structure of Europe in the contemporary age. (3 credits)

HISTORY C339
19th Century Civilization Seen Through the Novel

An examination of the major currents in 19th Century European history as seen in the novels of such writers as Dickens, Balzac, Stendhal, Dostoevsky, Flaubert and Zola. (3 credits)

HISTORY C340
20th Century Civilization Seen Through the Novel

A study of the main themes in contemporary history as expressed in the novels of such writers as Remarque, Malraux, Hamsun, Solzhenitsyn, Pasternak, Camus and Mailer. (3 credits)

HISTORY C341
History of European Diplomacy, 1870 to the Present

An intensive study of the relations among the Great Powers of Europe from the Franco-Prussian War to the present. (6 credits)

HISTORY C342
History of Britain Since 1460

A survey of the political, economic and social development of modern England. Emphasis is placed on the evolution of parliamentary government in the early period, on the economic changes of the 18th and 19th centuries and on the modern growth of democracy and the social service state. (6 credits)

HISTORY C343
Social and Economic History of Britain, 1500-1900

A study of the transition from a feudal to a modern industrial society. Attention will be given to the leading features of industrial, agricultural, commercial and financial change and their impact on the structure of society. (6 credits)

HISTORY C344
France Since 1789

A study of French history since the Revolution, with special emphasis on social and intellectual development. (6 credits)

HISTORY C345
(Also Given as German C345)
Germany and Austria in Modern Times

Socio-economic change and the development of nation-states in German Central Europe from the 18th Century to the present. For advance reading the student might consult H. Holborn, *A History of Modern Germany*. (6 credits)

HISTORY C346
History of Modern Italy

Survey of the history of modern Italy. Emphasis will be placed on the Risorgimento, the crises of liberal democracy, the rise of fascism and postwar problems. (6 credits)

HISTORY C347 -5341
History of Russia

This course traces the origin of the Slavic-speaking peoples in Europe and the emergence of the Russian Empire. After a discussion of the ideology and history of Bolshevism, it studies the history of communist government in the U.S.S.R. and among the Slavic peoples. (6 credits)
NOTE: This course may be taken for credits in the Russian Studies Programme.

HISTORY C348
History of Ireland

A survey course that traces the history of Ireland from 432 to the present. Emphasis will be on the 19th and 20th Centuries. Special attention will be given to the development of Irish nationalism and relations with Great Britain. Irish music and literature will be used to supplement the historical perspective. (3 credits)

HISTORY C350
America in the 17th Century

This course examines the founding of the thirteen American colonies with emphasis on Chesapeake society and New England puritanism. (3 credits)

HISTORY C351
America in the 18th Century

This course examines the rise of sense of nation, the War for Independence and the adoption of the U.S. Constitution. (3 credits)

HISTORY C352
Early National History of the United States

This course examines the political, social, and economic history of the new nation, the rise and fall of the federalist party and the triumph of Jeffersonian democracy. (3 credits)

HISTORY C353
United States in the 19th Century

The development of American political, social, and economic life in the 19th Century, including sectionalism and expansion, the characteristics of plantation slavery as a social system, the coming of the Civil War, and the aims and outcome of Reconstruction. (6 credits)

HISTORY C355
The United States in the 20th Century: 1900-1941

An examination of the political, economic, social and cultural trends and conflicts from the beginning of the 20th Century to World War II. (3 credits)

HISTORY C356
The United States in the 20th Century: 1941 to Present

An examination of the political, economic, social, and cultural trends and conflicts from World War II to the present. (3 credits)

HISTORY C357
Foreign Relations of the United States to 1917

An analysis of United States foreign policy from the American Revolution to United States entry in World War I, emphasizing the domestic debate over foreign policy and economic development, commercial and territorial expansion, and the dynamics of Canadian-American relations. (3 credits)

HISTORY C358
Foreign Relations of the United States, 1917 to Present

An historical investigation of United States foreign policy from American intervention in the Russian Revolution to the present, emphasizing United States responses to the challenge of revolutions in Asia and Africa, American conceptions of a new world order, the rise of the multinational corporation and its impact on Canadian-American relations. (3 credits)

HISTORY C359
American Social and Intellectual History

The course will deal with the origins and development of social institutions, colonial, regional and national economics, class structure, popular culture, literature, ideas and myths in the United States. First term covers from settlement to Civil War, second term from Civil War to present. (6 credits)

HISTORY C361
History of Modern India

A study of India, Pakistan and Bangladesh. The legacy of divergent cultural, linguistic and political experiences, the crisis of colonialism, and the emergence of national imperatives in the 20th Century. (6 credits)
NOTE: This course may be taken for credits in the Asian Studies Programme.

HISTORY C362
Traditional China

An examination of Chinese history from the beginning to the Ch'ing dynasty (c. 1800). Emphasis will be placed on China's political, intellectual and cultural heritage. (6 credits)
NOTE: This course may be taken for credits in the Asian Studies Programme.

HISTORY C363
Modern China

An intensive study of Chinese history since 1800 with emphasis on problems in political and intellectual history. (6 credits)
NOTE: This course may be taken for credits in the Asian Studies Programme.

HISTORY C371
Liberation Movements in Africa

A study of the liberation movements in Guine, Angola, Mozambique, Rhodesia and Namibia. (3 credits)

HISTORY C373
Africa and the Caribbean

The African origins of the people of the West Indies, the slave trade, and the modern history of the Caribbean Islands will be studied. (3 credits)

HISTORY C374
Industry and Empire

This course will investigate the nature of capitalist imperialism as it emerged in the 19th Century by a study of Great Britain and her colonial world. The course will begin with a study of British economy and society itself so that the changes brought about by the Industrial Revolution can be seen. Then the forms of domination, formal and informal, will be examined. Finally, some of the theories that have been used to explain the connection between industrialization and imperialism will be studied (6 credits)

HISTORY C380
Urban Planning in Historical Perspective

This lecture-and-discussion course assesses the development of Canadian cities in general and of Montreal in particular, with special stress on the implications for planning. Topics include the relative importance of geographic site and entrepreneurship in the rise of cities, the metropolitan dominance of, and rivalry between, Montreal and Toronto; the history of the early town planning movement in Canada, with discussion of its British roots; the conflict among competing language and cultural groups in Montreal; and the aesthetic and cultural costs of postwar urban redevelopment. (6 credits)
NOTE: This course may be taken for credits in the Urban Studies programme.

HISTORY C388
Revolution and Counter-Revolution: The Background to Contemporary Latin America

A survey of the roots of instability and reaction in Latin America. Attention will be paid to the following major themes: the impact of the conquest; the socio-economic and political pattern of colonial Latin America; the character and significance of the wars of Liberation; peasant and other popular movements; the origins and nature of modern liberation movements; the response of reaction. (6 credits)

HISTORY C390
(Also given as Philosophy C352)
Philosophy of History

An analysis of the nature of historical knowledge and explanation will be followed by a study of classical and contemporary attempts to elucidate the meaning of history. Authors discussed include Augustine, Vico, Kant, Hegel, Marx, Spengler, Popper, Toynbee. (6 credits)

HISTORY C392
History of Education

A survey of the History of Education from the Greeks to the present day. (6 credits)

HISTORY C393
Special Area Studies

This course affords an opportunity to study a special theme in History, taking advantage of the particular interests of members of the Department. (6 credits)

HISTORY C394
Special Area Studies

Students who receive credit for History C393 may take it again as History C394, provided a different subject is dealt with the second time. (6 credits)

HISTORY C395
Topics in History

This course will vary according to the interests of the instructor. (3 credits)

HISTORY C396
Topics in History

Students who receive credit for History C395 may register for History C396, provided a different subject is dealt with the second time. (3 credits)

Advanced

HISTORY C400
Problems in Quebec History

Prerequisite: Canadian survey at CEGEP or university and one 300-level course in history. Seminar in a selected topic in the history of Quebec. The specific content will vary from year to year. (6 credits)

HISTORY C402
Problems in Canadian Intellectual History

Prerequisite: History C203 and C205 and one 300-level course in history. A study of social and political thought, with emphasis on nationalism in both English and French Canada. (6 credits)

HISTORY C404
The City in Canadian History

Prerequisites: History 203 and C205 and one 300-level course in history. A study of urban development. For the first term, study will be devoted to world urban history. In the second term, study will concentrate on urban history in Canada. Students will have an opportunity to carry out original research in areas of interest to them. (6 credits)

HISTORY C406
Canada in the 1920's and 1930's

Prerequisite: History C203 and C205 and one 300-level course in history. The course will examine many facets of Canadian life, economic, political, social and intellectual, during the inter-war decades. Emphasis will be on individual research projects. (6 credits)

HISTORY C408
Problems in Canadian Social History

Prerequisite: History C203 and C205 and one 300-level course in history. A seminar and research course in Canadian social history. Topics to be studied will include sports, religion, morality, architecture and poverty. Classes will meet for discussion based on papers prepared by students. Students will also prepare a major paper based on original research. (6 credits)

HISTORY C411
Advanced Study in Canadian History

Prerequisite: History C203 and C205 and one 300-level course. Seminar in a selected topic in the history of Canada. The emphasis will be on encouraging students to conduct historical investigation on their own under a professor's guidance. The specific content will vary from year to year depending on the instructor. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

HISTORY C420
(Also given as Classics C448)
Julius Caesar and Alexander the Great

Prerequisite: An ancient history course. A course devoted to the careers of two of the most notable and influential figures in Ancient History, seeking to discover them as they were, the worlds which they conquered, their aims and their achievements. (6 credits)

HISTORY C422
(Also given as Classics C449)
Human Beginnings: The Stone Ages

The origin of man and man's place in evolution and in nature. Man the toolmaker: australopithecines, homo habilis, homo erectus, Peking man, Java man, Solo man, and others. The fossil evidence and taxonomic problems. Man the hunter: meat-eating, intelligence, and sexual differentiation. Territoriality and aggression. The struggle for existence and the survival of the fittest: Darwinism, Marxism, and sociology. Palaeolithic cultures: Abbevillean, Acheulean, Clactonian, and Mousterian. Neanderthal and Cro-Magnon mixtures? Man the artist. From Perigordian to Magdalenian. Epipalaeolithic and mesolithic societies. The Neolithic revolution. Stone Age cultures of today. Importance and relevance of prehistory. Homo ludens. (6 credits)

HISTORY C426
Advanced Study in Late Classical and Mediaeval Europe

Seminar in a selected topic in the history of late classical and mediaeval Europe. The emphasis will be on encouraging students to conduct historical investigation on their own under a professor's guidance. The specific content will vary from year to year depending on the instructor. Topics may be selected from such subjects as "Priesthood and Politics in the Middle Ages". (6 credits)

HISTORY C430
Advanced Study in Early Modern Europe

Seminar in a selected topic in the history of early modern Europe. The emphasis will be on encouraging students to conduct historical investigation on their own under a professor's guidance. The specific content will vary from year to year depending on the instructor. Topics may be selected from such subjects as "Cultural Differentiation in Early Modern France and Germany" and "The Enlightenment". (6 credits)

HISTORY C436
Advanced Study in Modern Europe

Seminar in a selected topic in the history of modern Europe. The emphasis will be on encouraging students to conduct historical investigation on their own under a professor's guidance. The specific content will vary from year to year depending on the instructor. Topics may be selected from such subjects as "Popular Protest in 19th Century Europe," "Revolutionary Tradition in 19th Century France," "Fascism," "Background of World War I" and "Nationalism and Industrialization in Central Europe". (6 credits)

HISTORY C438
Advanced Study in British History

Seminar in a selected topic in the history of Great Britain. The emphasis will be on encouraging students to conduct historical investigation on their own under a professor's guidance. The specific content will vary from year to year depending on the instructor. Topics may be selected from such subjects as "Tudor England," "Stuart England," and "Structural Change in the English Countryside, 1500-1900." (6 credits)

HISTORY C441
Advanced Study in Russian and Soviet History

Prerequisite: History C201 and C202; or C218, or C347, or permission of the Department. This course deals with specific problems in Tsarist and Soviet Russia. In the Pre-Revolutionary period attention is focussed on the emancipation of the peasantry, industrialization and the growth of the opposition parties. In the Soviet period emphasis is placed on the problems of economic growth, the changing pattern of Soviet Marxism and the nature of Soviet foreign policy. (6 credits)
NOTE: This course may be taken for credits in the Russian Studies Programme.

HISTORY C451
Advanced Study in American History

Prerequisite: A 300-level course in History. Seminar in selected topic in the history of the United States. The emphasis will be on encouraging students to conduct historical investigation on their own under a professor's guidance. The specific content will vary from year to year depending on the instructor. (6 credits)

HISTORY C461
Advanced Study in Asian History

Prerequisite: A 300-level course in History. Seminar in a selected topic in Asian history. The emphasis will be on encouraging students to conduct historical investigation on their own under a professor's guidance. The specific content will vary from year to year depending on the instructor. (6 credits)

HISTORY C470
Advanced Study in African History

Prerequisite: A 300-level course in history. Seminar in a selected topic in the history of Africa. The emphasis will be on encouraging students to conduct historical investigation on their own under a professor's guidance. The specific content will vary from year to year. (6 credits)

HISTORY C476
Imperialism and Revolution in the Third World

Prerequisite: Asian and African survey courses. A comparison of the techniques and effects of imperialism in Asia, Africa and Latin America during the late 19th and 20th Centuries. Modern independence and revolu-

tionary movements in these areas will be examined from a comparative perspective. (6 credits)

HISTORY C490
Joint History-English Tutorial

A tutorial conceived as a interdisciplinary effort between the Departments of History and English, and designed specifically to satisfy a requirement for the History-English joint Honours programme. Tutorials may be arranged with members of the respective departments. (6 credits)

HISTORY C491
Advanced STudy in a Special Subject

Prerequisite: Permission of the Department. This course, intended primarily for Honours or Major students, affords an opportunity for more intensive examination of a particular historical them than is possible in the normal lecture course. The specific subject will vary according to the special interest of the professor offering the course in any given year. (6 credits)

HISTORY C492
Advanced Study in a Special Subject

Prerequisite: Permission of the Department. A student repeating History C491 registers for credits under History C492 providing the subject matter is different. (6 credits)

HISTORY C493
Honours Essay Tutorial

This course is open only to Honours students in history. The student will work with an individual faculty member in a particular area of history. The student will be asked to produce a sustained piece of written work to be read by his/her adviser and at least one other member of the Department. (6 credits)

HISTORY C494
(Also given as Interdisciplinary Studies C451)
Advanced Study in the History of Science

Prerequisite: Permission of the Department. Seminar in a selected topic in the History of Science. The emphasis will be on encouraging students to conduct historical investigation on their own under a professor's guidance. The specific content will vary from year to year depending on the instructor. (6 credits)

HISTORY C495
(Also given as Interdisciplinary Studies C452)
Advanced Study in the History of Science

Prerequisite: Permission of the Department. A student repeating History C494 — (Interdisciplinary Studies C451) registers for credits under History C495 — (Interdisciplinary Studies C452), providing the subject matter is different. (6 credits)

HISTORY C496
Joint History — French Tutorial

Prerequisite: Permission of the Department. A tutorial conceived as an interdisciplinary effort between the Departments of History and French and designed specifically to satisfy a requirement for the History — French joint Honours programme. Tutorials may be arranged with members of the respective departments. (6 credits)

HISTORY C499
(Also given as SOCIOLOGY C490, C491)
History and Sociology

Prerequisite: An introductory course in History and in Sociology and Second or Third year standing. An exploration of the relationships between historical and sociological approaches to description and analysis of social conditions and social events, paying special attention to questions of methodology and conceptualization. (6 credits)
NOTE: This course may be counted for credits in either History or Sociology.

31.19 Interdisciplinary Studies

Director
To be announced

Professor
F. H. KNELMAN

Associate Professor
A. MELAMED

Programme Coordinators

Asian Studies
D. MILLER, *Associate Professor, Religion*

Canadian Studies
R. SORFLEET, *Associate Professor, English*

Individual Studies Programme — Self-Elected Specialization Undergraduate Scholars Programme Para-Academic Credit
S. MULLETT, *Assistant Professor, Philosophy*

Recreation and Leisure Studies
R. SWEDBURG, *Associate Professor, Bio-Physical Education*

Russian Studies
A. SIDOROW, *Associate Professor, Modern Languages and Linguistics*

Science and Human Affairs
F. H. KNELMAN, *Professor, Science and Human Affairs*

Third World Studies
J. TRESIERRA, *Associate Professor, Sociology and Anthropology*

Urban Studies
A. MELAMED, *Associate Professor, Urban Studies/Geography*

Objective

To accept the challenge implicit in living in a world where specialization can so easily be synonymous with narrowness of vision. This narrowness can be overcome if the specialist is able to see the interconnection between all fields of endeavour. Interdisciplinary Studies attempts to integrate knowledge, providing the specialist with a perspective which his discipline alone cannot give. Our primary aim, therefore is to work with specialists and specialization rather than to provide a substitute for them. We hope to achieve this objective through the offering of programmes containing courses given by the Centre as well as by various departments.

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

31.19.1 ASIAN STUDIES

Coordinator
Assoc. Prof. D. MILLER

As Canada strengthens her relationships with the nations of Asia, she will need young men and women who have been trained in Asian Studies to provide leadership in such fields as education, foreign service, banking, international law, overseas industry and business. The Asian Studies Programme seeks to meet this need by offering an interdisciplinary course of study involving the departments of Economics, History, Political Science, Religion and Sociology-Anthropology and the Faculty of Fine Arts.

48 BA Major in Asian Studies

6 INTE C410[6]
6 HIST C261[3], C262[3]
6 POLI C236[6]
6 Chosen from RELI C311[6], C312[6] or C313[6]
6 Chosen from ANTH C364[3], C365[3], C367[3]
18 Chosen from courses with Asian content

30 Minor in East Asian Studies

12 Chosen from HIST C261[3], C262[3], INTE C410[6] or any other Asian Studies courses approved by the Programme Coordinator.
18 Chosen from HIST C362[6], C363[6], C461[6], RELI C312[6], WMUS C310[6], POLI C236[6], ANTH C365[3] and C367[3]

NOTE: Students may take no more than 12 of these credits in a single department.

30 Minor in South Asian Studies

12 Chosen from HIST C261[6], INTE C410[6] or any other Asian Studies course approved by the Coordinator.

18 Chosen from HIST C361[6], C461[6], RELI C311[6], C313[6], WMUS C310[6], POLI C236[6], ANTH C364[3], C367[3]

NOTE: Students may take no more than 12 of these credits in a single department.

31.19.2 CANADIAN STUDIES

Coordinator
Assoc. Prof. R. SORFLEET

The Canadian Studies Programme seeks to give students a better understanding of the diverse origins and multi-faceted character of Canada. It provides the opportunity to obtain a liberal arts education given direction and depth by a focus on Canada.

60 BA Specialization in Canadian Studies

6 INTE C220[6]
6 ENGL C290[6]; or ENGL C291[3] and C292[3]
6 French Language, at a level to be determined in consultation with the French Department
6 HIST C203[3] and C205[3]
6 INTE C421[6]
30 Elective credits in related Canadian content courses, *chosen in consultation with the Coordinator,* from Anthropology, Art History, Communication Studies, Economics, Education, English, French, Geography, History, Interdisciplinary Studies, Journalism, Political Science, Religion, Sociology, and World Music.

42 BA Major in Canadian Studies

6 INTE C220[6]
6 ENGL C290[6]; or ENGL C291[3] and C292[3]
6 French Language, at a level to be determined *in consultation with the French Department*
6 HIST C203[3] and C205[3]
6 INTE C421[6]
12 Elective credits in related Canadian content courses, *chosen in consultation with the Coordinator,* from Anthropology, Art History, Communication Studies, Economics, Education, English, French, Geography, History, Interdisciplinary Studies, Journalism, Political Science, Religion, Sociology and World Music.

30 Minor in Canadian Studies

6 INTE C220[6]
6 ENGL C290[6]; or ENGL C291[3] and C292[3]
6 French Language, at a level to be determined *in consultation with the French Department*
6 HIST C203[3] and C205[3]
6 INTE C421[6]

31.19.3 RECREATION AND LEISURE STUDIES

Coordinator
Assoc. Prof. R. SWEDBURG

Recreation and leisure service is a basic social and cultural need, and is concerned with the interrelationships among people in their environment. A great deal of money is poured into recreation and leisure at all governmental levels, leading to a pressing need for people to administer and develop programmes at the necessary standards of sophistication.

This programme attempts to fulfill this need and is offered to those students interested in a career in recreation and leisure services together with those students who foresee the increasing academic enquiry into the problems derived from recreation and leisure within the work ethic.

The primary focus is on managing, programming, counselling and coordinating rather than instructing. The programme draws from the departments of Bio-Physical Education, French, Interdisciplinary Studies, Psychology, Sociology and the Faculty of Commerce and Administration.

Requirements:
Both required and elected courses within the Social Science and Applied Recreation options should be chosen in consultation with the coordinator.

Additionally it will be required that students must maintain a 65% average in all courses in the programme in order to continue into the second and third year of their studies.

Upon completion of all requirements the student will receive a **BA with Specialization in Recreation and Leisure Studies (Interdisciplinary Studies).**

90 BA Specialization in Recreation and Leisure Studies

I. Recreation and Leisure Foundation
(All compulsory)

21 BIOP C241[3], C342[6], C426[6], C464[6]
3 SOCI C344[3]
6 INTE C430[6]
6 French language at a level to be determined in consultation with the French Department
6 6 credits to be selected in consultation with programme Coordinator.

II. Social Science Component

24 credits chosen from one of the groups A, B or C

A Sociology	B Psychology - 1	C Psychology - 2
SOCI C200[6] C220[3] or C370[6] C310[6]	* PSYC C200[6] or C320[6] C315[3] C310[3]	PSYC C200[6] or C320[6] C315[3] C310[3]
12 credits from C330[6] C370[6] C350[3], C351[3] C400[6] C343[6]	12 credits from C342[6] C330[6] C333[6] C394[6]	12 credits from C345[6] C363[6] C357[6]

III. Applied Recreation Component

24 credits chosen from group x or y

X Administration	Y Programming
ECON C201[3]	BIOP C211[3]
ECON C203[3]	BIOP C261[3]
MANA C213[3]	BIOP C310[3]
MANA C266[3]	BIOP C313[3]
MARK C213[3]	BIOP C333[3]
MARK C350[3]	BIOP C370[6]
ACCO C213[3]	BIOP C401[3]
ACCO C218[3]	BIOP C412[3]
FINA C314[3]	BIOP C455[3]
FINA C315[3]	

**Psychology C200[6], or the equivalent, is a prerequisite for any Psychology 300 level course.*

90 Double Major in Recreation and Leisure Studies and Either Psychology or Sociology

42 Major in Psychology or Sociology

48 Major in Recreation and Leisure Studies

I. Recreation and Leisure Foundation

(All compulsory)

21 BIOP C241[3], C342[6], C426[6], C464[6]

3 Electives to be chosen in consultation with the Programme Coordinator.

II. Applied Recreation Component

24 credits chosen from group X or Y

X Administration	Y Programming
ECON C201[3]	BIOP C211[3]
ECON C203[3]	BIOP C310[3]
MANA C213[3]	BIOP C313[3]
MANA C266[3]	BIOP C333[3]
MARK C213[3]	BIOP C370[6]
MARK C350[3]	BIOP C401[3]
ACCO C213[3]	BIOP C412[6]
ACCO C218[3]	BIOP C455[3]
FINA C314[3]	
FINA C315[3]	

31.19.4 RUSSIAN STUDIES

Coordinator
Assoc. Prof. A. SIDOROW

The Russian Studies Programmes prepare students for professional and academic careers in Civil Service, Trade and Commerce, External Affairs, and other areas of relationship between Canada and the Soviet Union. A wide variety of courses in Russian language, politics, economics, history, philosophy and geography is taught by specialists who work closely with students in designing programmes which best fit their needs.

60 BA Honours in Russian Studies

6 ECON C375[3], C476[3]*
18 RUSS C210[6], C250[6], C300[6]
12 HIST C347[6], C441[6]**
6 GEOG C345[6]***
6 Chosen from RUSS C420[6], C430[6], C435[6], C470[3], C471[3]
12 Chosen from PHIL C334[3], C335[3], POLI C333[3], RUSS C420[6], C430[6], C435[6], C470[3], C471[3]

* *Prerequisite: ECON C201[3], C203[3] or equivalent*

** *It is suggested that students taking Russian History C347[6], C441[6] also register for HIST C218[6]*

*** *GEOG C345[6] may be taken for credits in the Honours or Major programmes only when the subject matter is relevant to Urban Studies. A student who has already taken it in a year when the subject matter was not thus relevant registers under GEOG C346[6] in meeting the degree requirements. Courses with Russian content may be taken in consultation with the Coordinator from the following departments: Economics, Geography, History, Philosophy, Political Science, Modern Languages*

NOTE: Students with a previous knowledge of the Russian language will have their programme determined in consultation with the Programme Coordinator.

42 BA Major in Russian Studies

18 RUSS C210[6], C250[6], C300[6]
6 HIST C347[6]**
6 GEOG C345[6]*
12 Chosen from RUSS C420[6], C430[6], C435[6], C470[6], C471[6], ECON C375[3], C476[3], HIST C441[6], PHIL C334[3] and C335[3], POLI C333[3]

* *Geography C345[6] may be taken for credits in the Honours or Major pro-*

grammes only when the subject matter is relevant to Russian Studies. A student who has already taken it in a year when the subject matter was not thus relevant, registers under Geography C346[6] in meeting the degree requirements. Courses with Russian content may be taken, in consultation with the Coordinator, from the following departments: Economics, Geography, History, Philosophy, Political Science, Modern Languages.

** *It is suggested that students taking History C347 also register for C218.*

NOTE: Students with a previous knowledge of the Russian language will have their programme determined in consultation with the Programme Coordinator.

31.19.5 SCIENCE AND HUMAN AFFAIRS

Coordinator
Prof. F. H. KNELMAN

This programme is concerned with the social dimensions of science and technology. Its teaching and research provide an interdisciplinary examination of the ethical, cultural, political and environmental problems associated with scientific and technological change. Attention is also focused on analysis of the social systems of science from historical, sociological, economic and philosophical perspectives.

The programme is designed for students interested in science and technology, but who do not plan careers in scientific research or the technical professions. Rather it prepares them for constructive careers which involve a grasp of scientific methods, an understanding of scientific principles and an appreciation of the nature, content and implications of scientific research, technological innovation and industrial development. For students working toward degrees in science or engineering, the programme provides the opportunity to develop important additional perspectives and capabilities.

There are a number of streams or areas within the programme. In the History and Philosophy of Science, for example, students may concentrate so as to prepare themselves for graduate work. Another stream examines the social impact of science and technology by focusing on policy problems. Students may develop a variety of approaches for dealing with public policy in either the areas of science and technology or environment. These also are preparatory for existing graduate programmes.

60 BA Specialization in Science and Human Affairs

12 INTE C250[3], C251[3], C253[3], C254[3]
6 Chosen from INTE C350[6], C351[6], GEOG C212[6], or Science electives approved by the Centre
18 INTE C450[6], C451[6], C453[6]
18 Chosen from INTE C452[6], PHIL C226[3] and C228[3], C231[6], C421[6], RELI C433[6], SOCI C405[6], HIST C330[6] or electives approved by the Centre
6 INTE C454[6]

NOTE: Students may be required by their adviser to take an English writing course at an appropriate level.

42 BA Major in Science and Human Affairs

12 INTE C250[3], C251[3], C253[3], C254[3]
6 Chosen from INTE C350[6], C351[6]; GEOG C212[6], or Science electives approved by the Centre
18 Chosen from INTE C450[6], C451[6], C452[6], C453[6]; PHIL C231[6], C346[6], C421[6]; RELI C443[6], SOCI C405[6], HIST C330[6], or elective credits approved by the Centre
6 INTE C454[6]

30 Minor in Science and Human Affairs

12 INTE C250[3], C251[3], C253[3], C254[3]
18 Chosen from INTE C350[6], C351[6], C450[6], C451[6], C452[6], C453[6]

31.19.6 INDIVIDUAL STUDIES PROGRAMME

Coordinator
Asst. Prof. S. MULLETT

This programme incorporates under a single administrative structure two previously non-related programmes, namely: the Self-Elected Specialization Programme and the Undergraduate Scholars Programme. Under this new administrative structure the two programmes will maintain their present academic configuration.

Self-Elected Specialization

Requirements leading to a Bachelor of Arts with a "self-elected" Specialization in . . . [title of chosen specialization] . . . (Interdisciplinary Studies)

Students may apply to pursue a Self-Elected Specialization by submitting in writing a statement of the proposed programme. There is no limitation on the subject matter of the proposal. The proposal should, however, contain the following information:

a) a title of proposed area of specialization,
b) a personal statement of purpose in taking such a programme,
c) a list of ten or more courses directly related to the title and totalling 60 credits over a three-year period.

This proposal should be submitted to the Director of Interdisciplinary Studies as early as possible before registration. It will then be examined by a committee of Faculty from

the general area of the student's interest. Students submitting proposals less than a month before registration may be admitted by the Director on a holding basis but this implies no guarantee of any later acceptance of a programme.

The following guidelines should help students in constructing a valid set of courses in the area of their Specialization.

1. The title or theme of the proposed area of Specialization must be interdisciplinary, i.e., it must contain a coherent perspective that cuts across at least three traditional disciplines.

2. A student must maintain a 70% average in those courses proposed in setting up the programme. Failure to meet this requirement will prohibit the student from entering the second and third years of study.

3. The programme must include at least four courses (24 credits) falling within a single discipline — hereafter called the foundation discipline. These courses must include some of the "core" courses towards a Major in that discipline. This practice is not only sound pedagogy but has added significance in that a student failing to maintain a 70% average can then transfer to the department of the foundation discipline and still continue towards a Major or Specialization in that field.

4. The final year the student must enrol in a tutorial for SELF-ELECTED SPECIALIZATION students. This tutorial is directed by a faculty member from a field of studies relevant to the student's programme. He/she will be chosen by the Director of the Centre for Interdisciplinary Studies in consultation with the student concerned. The tutorial Director will supervise an intensive reading programme and assist the student in the preparation of a paper. The tutorial is intended to bring together the various fields of knowledge included in the student's programme. Normally, the tutorial will carry a value of six credits.

All students will be required to take INTE C200 Introduction to the Methods of the Humanities and Social Sciences.

Requirements leading to a Bachelor of Science with a "self-elected" Specialization in . . . [title of chosen specialization] . . . (Interdisciplinary Studies)

1. Normal entrance requirements to Pure and Applied Science programmes.
2. Programme requirements: The same regulations as the Self-Elected Specialization BA degree.

30 credits must be in Pure Science courses and the remaining 30 credits must be Science-related courses. All courses must be approved by the Director.

Undergraduate Scholars Programme

The Undergraduate Scholars Programme is designed to meet the needs of responsible students with high academic standing whose educational goals can best be achieved through an individually tailored programme of study. Such students must register in a programme leading to the Bachelor of Arts degree with a major, specialization, or honours in an area of concentration, although the approach may be of an interdisciplinary nature.

Each programme of study is planned through consultation between the scholar and a faculty adviser from his main field of interest. As many as 54 of the 90 credits required for the degree may be taken as Undergraduate Scholars Programme credits or tutorials. This work might take the form of guided independent study, independent field or laboratory research or creative activity. Its precise nature will depend on the scholar's educational goals, interests and area of specialization.

Since this programme involves a great deal of individual attention on the part of faculty members, the number of entrants is necessarily limited. Students wishing to apply are therefore encouraged to prepare their applications as early as possible. Each student should submit a written statement of educational goals and arrange to have a collegial transcript and two letters of recommendation forwarded to:

The Coordinator
Undergraduate Scholars Programme
Asst. Professor S. Mullett
Department of Philosophy
Concordia University
1455 de Maisonneuve West
Montreal, P.Q. H3G 1M8

Para-Academic Credit

Please consult Section 16.4

31.19.7 THIRD WORLD STUDIES PROGRAMME

Coordinator
Assoc. Prof. J. TRESIERRA

The Third World Studies programme aims at encouraging and integrating interest in Asia, Africa and Latin America from an historical-developmental point of view. Courses relating to these areas are offered in the departments of History, Political Science, Sociology, Geography, Economics and the Centre for Interdisciplinary Studies.

Requirements:

Students enrolled in the programme will be required to take an introductory course INTE C270[6], together with 18 credits selected from at least two of the aforementioned departmental offerings. This selection must be done in consultation with the Coordinator.

After completion of all requirements the students will on graduation, be granted a Minor in "Third World Studies (Interdisciplinary Studies)"

24 Minor in Third World Studies

6 INTE C270[6]
18 Credits chosen from no more than two departments: History, Political Science, Sociology, Geography, Economics or the Centre for Interdisciplinary Studies. Selection must be done in consultation with the Coordinator.

31.19.8 URBAN STUDIES PROGRAMME

Coordinator
Assoc. Prof. A. MELAMED

The Urban Studies Programme introduces the student, through such disciplines as economics, sociology, geography and political science, to the many areas of research and theory relevant to the modern city and its problems. It also provides the necessary background for later post-graduate specialization in some aspect of urban research.

72 BA Honours in Urban Studies

18 Chosen from INTE C280[6]*, C380[6], C481[6], GEOG C433[6]
6 SOCI C200[6] or GEOG C211[6]*
9 ECON C201[3], C203[3], C392[3]
9 SOCI C354[3], C450[6]
6 POLI C200[6] or C250[6]
6 POLI C336[6]
6 GEOG C331[6]
12 Chosen from ECON C323[3], MATH C207[3] or ECON C221[3], GEOG C262[6], C362[3]; SOCI C210[6], C410[6], C312[6], C311[6]

NOTE: If a student has taken in CEGEP any of the introductory courses required in the Honours programme, course substitutions from the Cognate List must be made to add up to 72 credits for the Honours programme.

**NOTE: INTE C280[6] will serve as a prerequisite for Urban courses in Sociology or Geography*

60 BA Specialization in Urban Studies

18 Chosen from INTE C280[6]*, C380[6], C481[6], GEOG C433[6]
6 SOCI C200[6] or GEOG C211[6]*
9 ECON C201[3], C203[3], C392[3]
9 SOCI C354[3], C450[6]
6 GEOG C331[6]
12 Chosen from the Cognate List in consultation with the Coordinator.

NOTE: If a student has taken in CEGEP any of the introductory courses required in the Specialization programme, course substitutions from the Cognate List must be made to add up to 60 credits for the Specialization programme.

**INTE C280[6] will serve as a prerequisite for Urban courses in Sociology or Geography.*

42 BA Major in Urban Studies

18 Chosen from INTE C280[6]*, C380[6], C481[6], GEOG C433[6]
6 SOCI C200[6] or GEOG C211[6]*
9 ECON C201[3], C203[3], C392[3]
3 SOCI C354[3]
6 GEOG C331[6]

NOTE: If a student has taken in CEGEP any of the introductory courses required in the Major programme, course substitutions from the Cognate List must be made to add up to 42 credits for the Majors programme.

**INTE C280[6] will serve as a prerequisite for Urban courses in Sociology or Geography.*

30 Minor in Urban Studies

24 Chosen from INTE C280[6]*, GEOG C331[6], C401[6], INTE C380[6], C481[6]
6 Chosen from SOCI C200[6], GEOG C211[6]*, ECON C201[3], C203[3], C392[3], SOCI C354[3], C450[6], POLI C200[6], C250[6], C336[6]

**INTE C280[6] will serve as a prerequisite for Urban courses in Sociology or Geography.*

Cognate List

Students are advised to take note of the prerequisite requirements for some of these courses.

INTE	C380[6], C482[6]
JOUR	C201[6], C301[6], C400[3]
APSS	C212[6], C413[6], C441[3], C461[6]
ECON	C222[3], C316[3], C317[3], C335[3], C336[3], C493[3]
GEOG	C262[6], C355[6], C362[6], C363[3], C433[6], C457[6]
POLI	C336[6], C370[3]
SOCI	C210[6], C410[6], C312[6], C311[6]

Other courses may be selected in consultation with the programme Coordinator.

COURSES IN INTERDISCIPLINARY STUDIES

INTERDISCIPLINARY STUDIES C200 Introduction to the Methods of the Humanities and Social Sciences

This course will introduce students to representative methods used in the humanities and social sciences. Methodologies suitable to each discipline will be shown through examples and projects centred upon themes with Canadian content where possible. Instruction will be shared by the professors from the disciplines concerned. *Lectures:* 3 hours per week for two terms. (6 credits)

INTERDISCIPLINARY STUDIES C201 Aesthetics: An Interdisciplinary Approach

This course attempts to bring together a number of areas central to the cultural climate of our time, with emphasis on aesthetics, and man's encounter with the creative arts. The course examines the relation of aesthetics generally (and art in particular) to the crisis in values, and to contemporary identity crisis. More specifically, artistic questions such as the meanings and functions of

style, taste and criticism; the questions of form and content, subjectivity and objectivity in art; and the comparison of different artistic media, are integrated with the broader issues remarked above. The course's format is lecture and discussion with the use of slides, recordings and films as illustrative material. *Lectures:* 3 hours per week for two terms. (6 credits)

INTERDISCIPLINARY STUDIES C210
Tutorial in an Asian Language

Prerequisite: Enrolment in the Asian Studies Major or Minor programmes or permission of the Coordinator of Asian Studies. Tutorial course in an approved Asian language with a qualified instructor approved by the Coordinator and the Department of Modern Languages. Students should understand that fees will vary with individual instructors. (6 credits)
NOTE: With the permission of the Coordinator students may take this course twice for credits provided that a different subject is dealt with the second time and will register under INTE C211.

INTERDISCIPLINARY STUDIES C211
Tutorial in an Asian Language

Students taking INTE C210 a second time will register under INTE C211. (6 credits)

INTERDISCIPLINARY STUDIES C220
Introduction to Canadian Studies

Prerequisite: First-year standing Canadian Studies Major, or permission of the Coordinator. An introduction to some of the problems which have been explored by the humanities and social sciences in the study of Canada. The themes will vary from year to year and could cover topics such as the industrialization of Quebec, immigrant and ethnic traditions and the Americanization of Canada. (6 credits) *NOTE A/See § 200.1*

INTERDISCIPLINARY STUDIES C250
Introduction to Science and Human Affairs I

The social and historical context of scientific and technological change. The reciprocal interactions of science with government, ideology, economic development, religion, literature and social theory; science and the city; science and the control of human life; science and human liberation; new definitions of scientific responsibility may be considered. (3 credits) *NOTE A/See § 200.1*

INTERDISCIPLINARY STUDIES C251
Introduction to Science and Human Affairs II

A continuation of Interdisciplinary Studies C250. This course may be taken independently. (3 credits)

INTERDISCIPLINARY STUDIES C252
Contemporary Image of Science: The Physical Sciences

This course provides a general humanistic understanding of the physical sciences. The three main themes are man and the universe; the reality and unreality of matter and energy; man and the dynamic earth. (6 credits)

INTERDISCIPLINARY STUDIES C253
Environmental Issues I

The scientific, social and cultural nature of man's relationship to his environment. Emphasis will be placed on pollution, conservation, population resources and human ecology. (3 credits)

INTERDISCIPLINARY STUDIES C254
Environmental Issues II

A continuation of Interdisciplinary Studies C253. This course may be taken independently. (3 credits)

INTERDISCIPLINARY STUDIES C255
Environmental Studies

The course is designed to provide a general background to the scientific and sociological study of man's relationship to his environment. Each lecture will attempt an in-depth treatment of a specific issue and will be presented by an invited specialist in that field. The course will present an overall view of the general problems followed by a serious analysis of specific areas of concern, such as the pollution of water, air and soil; noise pollution; the oceans; energy resources and population. Possible solutions for the restoration and preservation of our environment will be discussed and the associated social, political and economic considerations will be presented. The general content of the lectures, where applicable, will be directed to problems in our city and province. The presentation of material will include lectures, discussion groups, films and panel discussions. Readings on the various topics will be assigned and students will be involved in projects and term papers. *Lectures:* 3 hours per week for two terms. (6 credits)

INTERDISCIPLINARY STUDIES C256
The Technological Society

The purpose of this course is to familiarize the student with the characteristics of contemporary society which specifically relate to the large-scale application of technology and to appreciate the historical uniqueness of these characteristics. The course will concentrate on four main areas:

1. *What is technology?* Science as technique. Organization as technique. Machines as technique. Social planning as technique. Technology and social change.
2. *Historical Studies* Agrarian Revolution, Medieval Technology and Feudalism, Industrial Revolution, Development of Economics.
3. *Comparative Studies* Technology under American Capitalism and Soviet Communism, developed countries and "Third World" nations, national commitments to technological growth, multi-national corporations.
4. *Problems of Technology* Technological backlash (e.g., pollution from industry), Doomsday theories, uncontrolled growth, alternative futures. *Lectures:* 3 hours per week for two terms. (6 credits)

INTERDISCIPLINARY STUDIES C270
An Introduction to the Third World

While this course is designated to provide an interdisciplinary background to students enrolled in the Third World Studies Programme, it is open to all students, irrespective of faculty. *Lectures:* 3 hours a week for two terms. (6 credits)

INTERDISCIPLINARY STUDIES C280
Urban Development

An introductory course in Urban Development using an interdisciplinary approach to the process of urbanization, the city as a social system, the city as an economic system and the built environment. The material will be presented by films, tapes and special readings. The films cover historic London, Ibadan and Chicago. (6 credits)

INTERDISCIPLINARY STUDIES C300
Selected Topics in Interdisciplinary Studies

The theme and methodology chosen will depend upon the background and interests of the instructor. Students are advised to consult the Interdisciplinary Studies Centre before registering in order to be sure of the title of the course in any one session. *Lectures:* 3 hours per week. (3 credits)
NOTE: With the permission of the Coordinator students may take this course twice for credits provided that a different subject is dealt with the second time and will register under INTE C301.

INTERDISCIPLINARY STUDIES C301
Selected Topics in Interdisciplinary Studies

Students taking INTE C300 a second time will register under INTE C301. (3 credits)

INTERDISCIPLINARY STUDIES C302
Lecture Series

This course provides a flexible context for study in a field of immediate or specific interest. The theme or topic discussed will vary from year to year. (3 credits)

INTERDISCIPLINARY STUDIES C320
Selected Topics in Canadian Studies

This course focuses its attention on one or more aspects of the Canadian Studies programme. The theme and methodology chosen will depend upon the background and interests of the instructor. Students are advised to consult the Interdisciplinary Studies Centre before registering in order to be sure of the title of the course in any one session. *Lectures:* 3 hours per week. (3 credits)
NOTE: With the permission of the Coordinator students may take this course twice for credits provided that a different subject is dealt with the second time and will register under INTE C321.

INTERDISCIPLINARY STUDIES C321
Selected Topics in Canadian Studies

Students taking INTE C320 a second time will register under INTE C321. (3 credits)

INTERDISCIPLINARY STUDIES C350
Case Histories in Experimental Science

Readings will concentrate on the original scientific texts (e.g. Harvey, Galileo, Newton, Faraday, Pasteur, Crick and Watson). In the laboratory section, students will follow the original experimental procedures which will also be examined in classroom demonstrations on film and videotape. (6 credits)

INTERDISCIPLINARY STUDIES C351
Astronomy, Cosmology and the Space Age

The nature of the universe as described in both contemporary and historical astronomical theories; cosmology and its cultural context; the nature of scientific method in astronomy; life on other worlds; the social implications of space flight. (6 credits)

INDISCIPLINARY STUDIES C370
Selected Topics in Third World Studies

This course focuses attention on some aspects of development and tradition in the Third World. The theme and methodology chosen will depend upon the background and interests of the instructor. Students are advised to consult the Interdisciplinary Studies Centre before registering in order to be sure of the content of the course in any one session. *Lectures:* 3 hours per week. (3 credits)
NOTE: With the permission of the Coordinator students may take this course twice for credits provided that a different subject is dealt with the second time and will register under INTE C371.

INTERDISCIPLINARY STUDIES C371
Selected Topics in Third World Studies

Students taking INTE C370 a second time will register under INTE C371. (3 credits)

INTERDISCIPLINARY STUDIES C380
Urban Planning in Historical Perspective

Prerequisite: INTE 280, GEOG C211 or SOCI C200. An overview of the cycle of city growth, decline, decay and resurgence from the earliest settlements to the present day. Each stage of urban transformation is related to the economic, social, political and technological forces which engendered them. The reference material would include films of older urban areas still in active use, as well as new towns and urban districts. Field trips to different sections of the Montreal region will emphasize different historic periods of development. Class assignments will focus on historic analyses of urban areas as a background to planning. (6 credits)

INTERDISCIPLINARY STUDIES C400
Self-Elected Specialization Tutorial

Prerequisite: For Self-Elected Specialization students in their final year. This tutorial is directed by a faculty member from a field of studies relevant to the student's programme. He will be chosen by the Director of the Centre for Interdisciplinary Studies in consultation with the student concerned. The tutorial Director will supervise an intensive reading programme and assist the student in the preparation of a paper. The tutorial is intended to bring together the various fields of knowledge included in the student's programme. (6 credits)

INTERDISCIPLINARY STUDIES C410
Advanced Tutorial in Asian Studies I

Prerequisite: Permission of the Coordinator. A tutorial course designed for Majors and Minors in Asian Studies. The topic and tutor are decided in consultation with the Coordinator. (6 credits)
NOTE: With the permission of the Coordinator students may take this course twice for credits provided that a different subject is dealt with the second time and will register under INTE C411.

INTERDISCIPLINARY STUDIES C411
Advanced Tutorial in Asian Studies II

Prerequisite: Permission of the Coordinator. Students taking INTE C410 a second time will register under INTE C411.

INTERDISCIPLINARY STUDIES C421
Seminar in Canadian Studies

Prerequisite: INTE C220 or permission of the Coordinator. This is an advanced seminar in Canadian Studies which emphasizes an interdisciplinary approach to certain concerns or characteristics of Canada and Canadians. It will normally be taken by students near the end of a Canadian Studies Programme. (6 credits)
NOTE: With the permission of the Coordinator, students may take this course for credits twice, provided that a different subject is dealt with the second time. Such students will register under INTE C422.

INTERDISCIPLINARY STUDIES C422
Seminar in Canadian Studies

Prerequisite: INTE C220 and INTE C421. Students taking INTE C421 a second time will register under INTE C422. (6 credits)

INTERDISCIPLINARY STUDIES C430
Recreation and Leisure Studies Seminar

Prerequisite: Enrolment in the final year of Recreation and Leisure Studies Programme. This is a third-year interdisciplinary seminar in which students can tie together all they have learned in the Recreation and Leisure Studies Programme. Additionally, students will be set on a course of study that should continue after they graduate so that they can keep up with future developments in this area. *Lectures:* 3 hours per week for two terms or equivalent time in independent study. (6 credits)

INTERDISCIPLINARY STUDIES C450
Advanced Study in Technology and Society

Prerequisites: INTE C250, C251, or permission of the Coordinator. The social role and impact of technology in modern society; alienation in the technological age; the critique of technology; the sources and processes of discovery; invention and innovation; methods of technological assessment and forecasting. (6 credits)

INTERDISCIPLINARY STUDIES C451
(Also given as History C494)
Advanced Study in the History of Science

Prerequisite: Permission of the Coordinator. Seminar in a selected topic in the History of Science. The emphasis will be on encouraging students to conduct historical investigation on their own under a professor's guidance. The specific content will vary from year to year depending on the instructor. (6 credits)
NOTE: With the permission of the Coordinator students may take this course twice for credits provided that a different subject is dealt with the second time and will register under INTE C452 (HIST C495).

INTERDISCIPLINARY STUDIES C452
(Also given as History C495)
Advanced Study in the History of Science

Prerequisite: Permission of the Coordinator. Students taking INTE C451 (HIST C494) a second time will register under INTE C452 (HIST C495) (6 credits)

INTERDISCIPLINARY STUDIES C453
Science and Public Policy

Prerequisite: INTE C250, C251, one course in Political Science or permission of the Coordinator or the Department. This course will deal with the relationship between science and government. Particular emphasis is placed on such problems as the role of the scientist in political decision-making, the making of Canadian science policy, the mix of basic, applied and mission-oriented research, the relations of science and the military, the nature of technocracy and the role of science in economically developing nations. (6 credits)

INTERDISCIPLINARY STUDIES C454
Seminar in Science and Human Affairs

Prerequisite: Enrolment in Major or Specialization in Science and Human Affairs, or permission of the Coordinator. Taught by all members of staff, this seminar affords an opportunity for intensive examination of an explicitly interdisciplinary theme. (6 credits)
NOTE: With the permission of the Coordinator students may take this course twice for credits provided that a different subject is dealt with the second time and will register under INTE C455.

INTERDISCIPLINARY STUDIES C455
Seminar in Science and Human Affairs

Prerequisite: Permission of the Coordinator. Students taking INTE C454 a second time will register under INTE C455. (6 credits)

INTERDISCIPLINARY STUDIES C470
Third World Studies Seminar

Prerequisite: Open only to students in their second or third year or to post-graduate students. This seminar will deal with one or other special aspects of the Third World on a comparative basis. *Lectures:* 3 hours per week for two terms. (6 credits)

INTERDISCIPLINARY STUDIES C481
Seminar in Urban Studies I

Seminar limited to second and third year students in the Urban Studies programme. An advanced seminar on the urban phenomenon as it occurs in the Canadian context. It will explore relevant urban issues and seek the development of urban policy positions. Students will be asked to prepare and submit appropriate research policy papers. (6 credits)

INTERDISCIPLINARY STUDIES C482
Seminar in Urban Studies II

Prerequisite: INTE C481 and permission of the Coordinator. Field assignment(s) in an urban activity area of interest to the student. Seminar will provide for interchange of field experiences, evaluations, problem solving. (6 credits)

31.20 Journalism

Associate Professor and Director
L. CRYSLER

Assistant Professor
E. RAUDSEPP

Sessional Instructors
T. ARMOUR
C. BRYANT
B. DUFRESNE
N. GREEN
P. MCCALLUM
D. MCGILLIVRAY
S. PHIZICKY
J. STEWART

ADMISSION

Enrolment in writing workshops in the Journalism Programme is limited.

Admission procedures include: a test of English proficiency; a letter of application of about 300 words describing the student's academic and work background and aspirations in journalism; and an interview. Although it will not determine acceptance, applicants are advised that a working knowledge of French is important.

The application period for September classes begins in the previous February. The first group of successful applicants is notified about June 1, and the final group is selected by August 1.

Due to enrolment limitations, priority of placement is given to students enrolled in the Minor and Major programmes.

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

42 BA Major in Journalism

Year I
12 JOUR C201[6], C205[3], C210[3]
6 Chosen from HIST C203[3] and C205[3] or POLI C250[6]
Year II
15 JOUR C301[6], C306[3], C310[3], COMS C360[3]
Year III
3 JOUR C400[3]
3 Chosen from JOUR C402[3], C403[3]
3 Chosen from JOUR C410[3], C415[3]

30 BA Minor in Journalism

Year I
12 JOUR C201[6], C205[3], C210[3]
Year II
9 JOUR C301[6], C310[3]
Year III
6 JOUR C400[3], C410[3]
3 Chosen from JOUR C402[3], C403[3]

JOURNALISM C201
Writing and Reporting I

This course gives training in basic reporting and newswriting. Students will practise writing news and will receive out-of-classroom assignments. (6 credits) *NOTE A/See § 200.1*

JOURNALISM C205
History of Journalism

A history of the news media in the English-speaking world, starting with the government gazettes of seventeenth-century England and their illegal, underground competition, through the "news" papers of the eighteenth century, the rise of the yellow press, the human interest story, the penny press in the nineteenth century, down to today's corporate press. The course is designed to show that our expectations of the news media are not inherent in human nature, but are the result of historical processes that continue to evolve. (3 credits) *NOTE A/See § 200.1*

JOURNALISM C210
The Media in Quebec

This course studies the special characteristics of Quebec media, focusing particularly on the historical development of Quebec journalism and the part it has played in the shaping of modern Quebec. Particular attention is given to the influence of journalists in cultural and political affairs. The recent increasing concentration of media ownership will be examined. (3 credits)
NOTE: Students who have credit for JOUR C305 may not take this course for credits.

JOURNALISM C301
Writing and Reporting II

Prerequisite: JOUR C201. A general workshop in news and feature writing, with assignments emphasizing the journalism of municipal affairs and contemporary urban life. (6 credits)

JOURNALISM C306
Radio News

Prerequisite: Students with second-year standing in the Journalism Major, or Communication Studies students who have permission of the Director. Students will learn to write for newscasts and for longer broadcast formats. There will be field assignments in interviewing, tape editing and preparation for broadcast. (3 credits)

JOURNALISM C310
The Press and the Law

Prerequisite: Second year standing in Journalism or permission of the Director. Lectures will cover those aspects of criminal and civil law which will bear most directly on the work of professional journalists — libel, slander, contempt of court. (3 credits)
NOTE: Students who have credit for JOUR C405 may not take this course for credits.

JOURNALISM C400
Advanced Reporting

Prerequisite: JOUR C301. Students will be introduced to several areas of specialist reporting — economics and business, public affairs, medicine and science, the arts, etc. — and to a variety of journalistic treatments: background, interpretive and investigative reporting. (3 credits)
NOTE: Students who have credit for JOUR C401 may not take this course for credits.

JOURNALISM C402
Specialist Reporting

Prerequisite: JOUR C400. Students will cover a beat in the field of their choice for several weeks, producing news, features and background stories. A term-end major background story will also be produced. There will be seminars and discussions, with leaders from the media, on the specifics of beat coverage and on general media topics, such as trade unionism, ethics, journalistic responsibility. (3 credits)

JOURNALISM C403
Quebec Affairs

Prerequisite: JOUR C400 and fluency in French. Assignments will bring students into contact with leaders from many areas of Quebec life via interviews, press conferences, speeches and seminars, conducted almost exclusively in French. They will meet politicians, businessmen, labour leaders, entertainers and artists, and people active at all levels of community life. Students will have the choice of writing in English or French. (3 credits)

JOURNALISM C410
Principles of Editing

Prerequisite: JOUR C301. Lectures and workshops in the art of story editing, with an introduction to layout and design. While the material used is designed primarily for print reproduction, the techniques, and particularly the intellectual processes, employed are applicable to all media. (3 credits)

JOURNALISM C415
Television News

Prerequisite: JOUR C306. The study of and practice in the application of news writing and editing for television. Classes and field assignments will cover writing, interviewing and editing of videotape for short television newscast items and for longer news feature formats. (3 credits)

practices and procedures as related to the acquisition, housing and maintenance of library collections. The student will study different types of circulation control systems and the various circulation functions including loan policies and procedures, inter-library loans, reserves, overdues, statistics, weeding, inventory control and library security. The acquisition, organization, housing, and maintenance of monographs, serials and uncatalogued collections of material will be examined. The latter includes government publications, technical reports and pamphlets. (3 credits)
NOTE: Students may be required to bear some of the cost of materials.

LIBRARY STUDIES C374
Selected Topics in Library Studies

Prerequisites: Permission of Coordinator. Content will depend on the theme designated by the Programme, which varies from year to year. (3 credits)

LIBRARY STUDIES C375
Selected Topics in Library Studies

A student may repeat LIBS C374, provided that the content is different, by registering for credits under LIBS C375. (3 credits)

LIBRARY STUDIES C376
Selected Topics in Library Studies

Prerequisite: Permission of Coordinator. Content will depend on the theme designated by the Programme, which varies from year to year. (3 credits)

LIBRARY STUDIES C377
Selected Topics in Library Studies

A student may repeat LIBS C376, provided that the content is different, by registering for credits under LIBS C377. (3 credits)

LIBRARY STUDIES C407
Research Methodology

Prerequisites: LIBS C303 and C305. The aim of this course is to develop an understanding and appreciation of research methods and approaches specific to subject disciplines, based on the consideration of general principles of research methodology and the planning of logical research strategies. The library-oriented approach insures a solid background of data from which problems can be attacked and solutions arrived at. Topics covered in logical progression include: selecting and defining the problem; planning the research programme; developing and testing hypotheses; collecting; classifying, evaluating and analyzing evidence; drawing conclusions; presenting results. Sound knowledge of general reference and bibliographic sources, and those of one academic discipline is assumed. Students will be evaluated principally on a term paper related to a research strategy and methods applied to a problem of their own choosing, and class participation. (3 credits)

LIBRARY STUDIES C409
Library Research and Library Resources in Science and Technology

Prerequisite: LIBS C201, C202 or should be enrolled in a major in one of the sciences. The course is designed to introduce Science and Engineering undergraduates as well as the Library Studies student to the structure of scientific literature, the basic types of information sources in Science and Technology, information networks and computer-based retrieval systems. The student will also become familiar with search strategies and indexing techniques. Emphasis will be placed on developing in-depth skills in the student's particular discipline or interest, e.g. Chemistry, Biology, Physics, etc. (3 credits)
NOTE: Students who have taken LIBS L475 (76/77); L478 (78/79); C376 (79/80) may not take this course for credit.

LIBRARY C411
Library Service and Work with Children

Prerequisites: Library C201 and C202. To introduce the student to the major genres of children's literature. To study the methods and techniques used in the library to stimulate the child's reading interest and ability. The student will be called upon to do book talks, evaluate children's literature from the child's as well as the librarian's point of view. Role playing simulation and experience in a children's library will also be provided. (3 credits)

LIBRARY C421
Library Service and Work in Schools

Prerequisites: Library C201 and C202. The duties and responsibilities of the library assistant in the school, and those of the teacher-librarian, will be discussed including programmes for teaching the use of the library, methods for cooperating with teachers, assembling materials for instructional units, curriculum demands upon the library, and the effects of new curriculum trends in education upon the school library/resource centre. (3 credits)

LIBRARY STUDIES C430
Advanced Cataloguing and Classification

Prerequisite: LIBS C320 and C325. This course is designed for the student who possesses a working knowledge of basic cataloguing and classification. It will cover Library of Congress Classification in depth; Library of Congress Subject Headings, MARC formats and coding. Laboratory sessions and assignments will be required of the student. (3 credits)

LIBRARY STUDIES C432
Library Service and Work in the College and University

Prerequisites: LIBS C201 and C202. The organization, administration and functions of academic libraries will be studied with special references to curriculum-oriented library service, together with services relating to large academic research libraries and library colleges. (3 credits)

LIBRARY STUDIES C435
The Organization of Audio-Visual Collections

Prerequisites: LIBS C320, C325, C333. This course will study audio-visual materials and the tools and aids for their acquisition, cataloguing and maintenance. Descriptive cataloguing and classification of the various audio-visual documents, such as tapes, cassettes, filmstrips, film loops, films, kits and the processing of these materials as well as their storage and circulation will be discussed. (3 credits)

LIBRARY STUDIES C441
Library Service and Work in Business and Industry

Prerequisites: LIBS C201, C202 and permission of the Coordinator. The role of the library in relation to business or industry will be examined. The specific skills and devices employed to provide direct information to the users will be explored. Some lectures will include role playing, simulation and group activity. On-site training and experience in a business library will also be provided. (3 credits)

LIBRARY STUDIES C451
Library Service and Work in the Public Library

Prerequisites: LIBS C201, C202 and permission of the Coordinator. This course traces the development of the public library, particularly in Québec. It deals with the objectives, roles and functions of public library service in contemporary society. Topics such as freedom of access to information, library bill of rights and collection and preservation of library materials will be explored. (3 credits)

LIBRARY STUDIES C461
Library Service and Work with the Young Adult

Prerequisites: LIBS C201, C202 and permission of the Coordinator. The course will explore the major phenomena of the teenager's world, his lifestyle, problems and his responsibilities. Some of the skills needed to serve young adults in a library setting will be examined. Literature written especially for young adults, and some adult literature which is especially popular with, and suitable for, young people, will be studied. A pre-course reading list is available. (3 credits)

LIBRARY STUDIES C478
Advanced Topics in Library Studies

Prerequisite: Permission of the Coordinator. This course focuses on advanced topics of interest in Library Studies. Content will depend on the theme designated by the Programme, which varies from year to year. (3 credits)

LIBRARY STUDIES C479
Advanced Topics in Library Studies

A student may repeat LIBS C478, provided that the content is different, by registering for credits under LIBS C479. (3 credits)

LIBRARY STUDIES C480
Advanced Topics in Library Studies

Prerequisite: Permission of the coordinator. This course focuses on advanced topics of interest in Library Studies. Content will depend on the theme designated by the Programme, which varies from year to year. (3 credits)

LIBRARY STUDIES C481
Advanced Topics in Library Studies

A student may repeat LIBS C480, provided that the content is different, by registering for credits under LIBS C481. (3 credits)

LIBRARY STUDIES C495
Field Work and Research Project

Prerequisite: Permission of the Coordinator. Upon completion of all required Library Studies courses the student will be placed in a library system related to the elective courses of study. Seventy (70) working hours will be required in one block under the supervision of a professional librarian. In addition, students are required to do independent research on a topic of relevance to library studies. (3 credits)

31.22 Mathematics

Chairman
H. PROPPE, *Associate Professor*

Professors
F. W. BEDFORD
V. BYERS
M. KANTER
N. E. SMITH
M. E. SZABO
D. WHEELER

Associate Professors
L. S. ADLER
K. K. ANAND
M. M. BELINSKY
M. V. BOBETIC
A. BOSWALL
A. BOYARSKY
M. A. BRIAN
J. BRODY
A. BUCKLEY
W. BYERS
G. E. COHEN
M. COHEN
T. DWIVEDI
R. L. HALL
J. C. HAYES
N. HERSCOVICS
J. HILLEL
Z. KHALIL
H. KIM
H. KISILEVSKY
G. S. LINGAPPAIAH
K. N. MAJUMDAR
M. A. MALIK
A. J. PRILLO
R. RAPHAEL
J. SENEZ
J. SORIC
T. N. SRIVASTAVA
R. STERN
J. C. TURGEON
Y. H. WANG
M. ZAKI

Assistant Professors
Y. P. CHAUBEY
A. KEVICZKY
R. MALTZ
I. RABINOVITCH
R. SMITH

Adjunct Associate Professors
L. S. DUBE
B. MACGIBBON-TAYLOR
A. S. RAO

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

66 BA or BSc Honours in Mathematics

51 MATH C231³, C241⁶, C261⁶, C271³, C281⁶, C362³, C363³, C366³, C382³, C393³, C394³, C461⁶, C491³
9 MATH chosen with prior departmental approval from MATH C322³, C373³, C381³, C392³, C466³, C475³, C492³, C499³
6 MATH chosen with prior departmental approval.

60 BA or BSc Specialization in Mathematics

42 MATH C231³, C241⁶, C261⁶, C271³, C281⁶, C362³, C363³, C366³, C382³, C393³, C394³
12 MATH chosen with prior departmental approval from MATH C322³, C373³, C392³, C461⁶, C466³, C491³
6 MATH chosen with prior departmental approval

36 BA or BSc Major in Mathematics

30 MATH C231³, C241⁶, C261⁶, C271³, C281⁶, C362³, C393³
6 MATH chosen with prior departmental approval from MATH C322³, C363³, C366³, C373³, C382³, C392³, C394³

66 BA or BSc Honours in Statistics

54 MATH C231³, C241⁶, C261⁶, C271³, C281⁶ C344⁶, C345⁶, C351³, C362³, C363³, C445³, C461⁶
6 MATH chosen with prior departmental approval from MATH C342³, C343³, C347³, C353³, C451³
6 MATH chosen with prior departmental approval

60 BA or BSc Specialization in Statistics

45 MATH C231³, C241⁶, C261⁶, C271³, C281⁶, C344⁶, C345⁶, C351³, C362³, C363³
9 MATH chosen with prior departmental approval from MATH C342³, C343³, C347³, C353³, C445³, C451³
6 MATH chosen with prior departmental approval.

36 BA or BSc Major in Statistics

30 MATH C231³, C241⁶, C261⁶, C271³, C281⁶, C344⁶
6 MATH chosen with prior departmental approval from MATH C342³, C343³, C345⁶, C347³, C351³, C353³

66 BA or BSc Honours in Applied Mathematics

54 MATH C231³, C241⁶, C261⁶, C271³, C281⁶, C311³, C331⁶, C362³, C363³, C371³, C431⁶, C461⁶
12 MATH or cognate disciplines chosen with prior departmental approval

60 BA or BSc Specialization in Applied Mathematics

48 MATH C231[3], C241[6], C261[6], C271[3], C281[6], C311[3], C331[6], C362[3], C363[3], C371[3], C431[6]
12 MATH or cognate disciplines chosen with prior departmental approval

36 BA or BSc Major in Applied Mathematics

30 MATH C231[3], C241[6], C261[6], C271[3], C281[6], C331[6]
6 MATH chosen with prior departmental approval from MATH C311[3], C312[3], C371[3], C373[3], C431[6], C432[3]

24 Minor in Mathematics

24 MATH C231[3], C241[6], C261[6], C271[3], C281[6]

24 Minor in Statistics

24 MATH C231[3], C241[6], C281[6], C343[3], C344[6]

24 Minor in Mathematics for Students in BA Programmes

24 MATH credits approved by the Department of Mathematics. At least 12 credits must be at the level of MATH C231 or above.

NOTE: Students in BA programmes are also eligible for a regular Minor in Mathematics or Statistics provided they have the necessary prerequisites.

A student wishing to follow a Mathematics Programme but not meeting the entrance requirements should consult with the Department.

By careful choice of electives, students can select whether the emphasis of the programme will be in the area of Pure Mathematics, Applied Mathematics or Statistics.

Students seeking admission to the Honours programme on or after June 1st, 1977 will be bound by the Honours requirements outlined in § 16.6.00 of this Calendar. Students who already had Honours status by June 1st, 1977 will continue to be governed by the requirements which applied at the date of their admission to the Honours programme.

Certificate in Mathematics For Teachers (Elementary School Level)

Programme Director
Assoc. Prof. M. A. BOSWALL

Admission Requirements
Admission to this programme is open to teachers who already hold either a general elementary licence or an elementary special education licence.

The Department of Mathematics offers a Certificate in Mathematics for Teachers (Elementary School Level) for the professional development of teachers interested in mathematics. This programme was designed in accordance with the programme-cadre for Elementary Mathematics issued by the General Directorate of Elementary and Secondary Education and approved for "perfectionnement" by the Higher Education Branch of the Department of Education on February 15, 1974.

Practising teachers are offered the opportunity to improve their knowledge of mathematics in order to help them teach mathematics more effectively. The presentation will generally be in workshop form with emphasis on assignments which develop activities for classroom use. Courses will be offered on and off campus during the Winter and Summer months subject to demand and the availability of instructors.

30 Certificate in Mathematics for Teachers (Elementary School Level)

6 MATH C305[6].
24 Chosen from MATH C300[6], C301[6], C302[6], C303[6], C304[6], C307[3], C309[3].

NOTE: In some cases where students have completed similar mathematical courses in previous studies, the Mathematics Department may allow pro tanto credits up to a maximum of 12 credits.

Certificate in Mathematics For Teachers (Junior Secondary School Level)

Programme Director
Assoc. Prof. M. A. BRIAN

Admission Requirements
Admission to this programme is open to teachers who already hold a teaching licence at the secondary level. This licence may be a generalist licence or a mathematics specialist licence.

The Department of Mathematics offers a Certificate in Mathematics for teachers who teach mathematics at the junior high school level. Some of the courses offered have been specially designed to deal with new subject matter which is being introduced into the secondary school curriculum, as well as with aspects of mathematical pedagogy necessary for the teaching of this material. This programme was approved for perfectionnement on February 14, 1974, by the Higher Education Branch of the Department of Education.

30 Certificate in Mathematics for Teachers (Junior Secondary School Level)

3 MATH C400[3].
27 MATH C401[6], C402[3], C403[3], C404[6], C405[3], C406[3], C407[6], C408[3], C409[3], C410[3].

NOTE: In some cases where students have completed similar mathematical courses in previous studies, the Mathematics Department may modify a student's programmes to meet his professional requirements. It may grant pro tanto credits up to a maximum of 12 credits.

Because of the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

MATHEMATICS C200
Fundamental Concepts of Algebra

This course is designed to give the student the background necessary for Mathematics C201. Some previous exposure to algebra is assumed. Sets, algebraic techniques, inequalities, graphs of equations. (3 credits)
NOTE: Students who have credit for Mathematics C201 or equivalent may not take this course for credits.

Science students may not take this course for Science credits.

MATHEMATICS C201
Elementary Functions

Sets, inequalities, graphs of functions and relations. Trigonometric, exponential and logarithmic functions. Lectures and laboratory. (3 credits)
NOTE: Science students may not take this course for Science credits.

MATHEMATICS C202
College Algebra

Prerequisite: Mathematics C201 previously or concurrently. Sequences, permutations, combinations, Binomial Theorem. Complex numbers, polynomials, rational functions. Systems of equations and determinants. (3 credits)
NOTE: Science students may not take this course for Science credits.

MATHEMATICS C203
Differential and Integral Calculus I

Prerequisite: Mathematics C201 or equivalent. Functional notation. Differentiation of polynomials. The power, product, quotient and chain rules. Differentiation of elementary functions. Implicit differentiation. Higher derivatives. Maxima and minima. Applications: tangents to plane curves, graphing, related rates. Approximations using the differential. Antiderivatives, definite integrals, area. Lectures and laboratory. (3 credits)
NOTE: Science students may not take this course for Science credits.

MATHEMATICS C204
Vector Analysis and Analytical Geometry

Prerequsite: Mathematics C202 or equivalent. General second degree equations; rotation of axes. Inner and cross products of vectors. Algebraic and vector equations of curves in the plane and in space. Elementary study of surfaces in space. Curves and surfaces in parametric form. Polar, spherical and cylindrical coordinates. (3 credits)
NOTE: Science students may not take this course for Science credits.

MATHEMATICS C205
Differential and Integral Calculus II

Prerequisite: Mathematics C203. Techniques of integration: substitutions, integration by parts, partial fractions. Improper integrals. Physical applications of the definite integral. Infinite series: tests for convergence. Power series, Taylor's theorem. Lectures and laboratory. (3 credits)
NOTE: Science students may not take this course for Science credits.

MATHEMATICS C206
Introduction to Linear Algebra

Prerequisite: Mathematics C202 or permission of the Department. Operations on Matrices. Determinants. Cramer's Rule. Systems, rank. The inverse matrix. The Gauss-Jordan method, mappings, matrix transformation, linear transformations, characteristic values, vectors, quadratic forms. (3 credits)
NOTE: Students with credit for Mathematics C281 or equivalent may not take this course for credits.

Science students may not take this course for Science credits.

MATHEMATICS C207
Statistics for the Social Sciences

Prerequisite: Mathematics C201 or equivalent or permission of the Department of Mathematics or Economics Elementary probability, permutations and combinations, binomial and normal distribution. Analysis and organization of statistical data. Tests of hypotheses. Confidence limits. Introduction into linear regression and correlation. Lectures and laboratory. (3 credits)
NOTE: Students with credit for Mathematics C241 or equivalent may not take this course for credits.

Science students may not take this course for Science credits.

This course may be taken for credits in the Urban Studies Programme.

MATHEMATICS C208
Fundamental Mathematics I

Prerequisite: MATH C201 or equivalent. This course is intended primarily for pre-Commerce students. Progressions, compound interest, annuities, permutations, combinations and binomial theorem, polynomials, curve fitting, inequalities, linear programming. (3 credits)
NOTE: Science students may not take this course for Science credits.

MATHEMATICS C209
Fundamental Mathematics II

Prerequisite: Mathematics C201 or equivalent. This course is intended primarily for pre-Commerce students. Limits, differentiation of rational, exponential and logarithmic functions, theory of maxima and minima, integration. (3 credits)
NOTE: Science students may not take this course for Science credits.

MATHEMATICS C210
Mathematics for the Biological Sciences I

Prerequisite: CEGEP Mathematics 103 or equivalent. Discrete probability, probability distributions, difference equations, differential equations, transients, steady state solutions, system concept, block diagrams, linear programming, game theory. Markov chains, applications to ecology, population models, physiology. (3 credits)

MATHEMATICS C211
Fundamental Mathematics III

Prerequisite: MATH C209 or equivalent. This course is intended primarily for pre-Commerce students. Operations on matrices, determinants; system of linear equations, rank, inverse matrix, characteristic values. Functions of two variables, partial derivatives, maxima and minima, iterated inte-

grals; difference and differential equations. (3 credits) This course was first offered in 1979-80.
NOTE: Science students may not take this course for Science credits. Students who have received credit for Mathematics C205 may not take this course for credits.

MATHEMATICS C215
Ideas in Mathematics I

A course for non-Science students. The course endeavours to reveal the extent and power of mathematics and to give some insight into its historical development. The topics chosen will be presented in a way that requires a minimal mathematics background. This course has no formal prerequisites and does not serve as a prerequisite for any other course in Mathematics. Students should consult with the Department before registering for this course. (3 credits)

MATHEMATICS C216
Ideas in Mathematics II

A course for non-Science students. The course objectives are identical to Mathematics C215 but different topics are covered. This course has no formal prerequisites and does not serve as a prerequisite for any other course in Mathematics. Students should consult with the Department before registering for this course. (3 credits)

MATHEMATICS C220
Mathematical Methods in Chemistry

Prerequisite: CEGEP Mathematics 203 or equivalent. Partial derivatives. First order differential equations (first and second order chemical reactions). Hermite, Laguerre and Legendre equations. Solutions by power series. Eigenfunctions and eigenvalues, Sturm-Liouville Theory. (3 credits)

MATHEMATICS C225
Mathematics of Investment

Prerequisite: Mathematics C202 and C201 or their equivalents, or Functions. Theory of interest, annuities certain, amortization and sinking funds, evaluation of bonds and other investments, depreciation, depletion and capital cost. Brief introduction to life insurance. (3 credits)

MATHEMATICS C231
Introduction to Applied Mathematics

Prerequisite: Mathematics C281 previously or concurrently. Introduction to the theory of optimization, linear programming, the Simplex Method. Deterministic and stochastic models for growth processes. Introduction to graphs and networks. Applications. (3 credits)
NOTE: Only 3 credits will be awarded from Mathematics C231, Quantitative Methods C313, Engineering C412.

MATHEMATICS C241
Introduction to Statistics

Prerequisites: CEGEP Mathematics 203 or equivalent. Fundamental concepts of probability, probability distribution, sample statistics, estimation of parameters, test of hypotheses, regression and correlation. (6 credits)

MATHEMATICS C261
Advanced Calculus

Prerequisite: CEGEP Mathematics 105, 203 or equivalent. Functions of several variables, partial derivatives, maxima and minima, vector functions, multiple integrals, line and surface integral and related topics. (6 credits)

MATHEMATICS C271
Differential Equations I

Prerequisite: CEGEP Mathematics 105, 203. Separable equations, exact equations, integrating factors, force fields, first order linear equations, input-output concept, second order equations, reduction of order, variation of parameters, nth. order linear equations with constant coefficients. Laplace transforms, block diagrams and signal flow graphs. (3 credits)

MATHEMATICS C281
Linear Algebra I

Prerequisite: CEGEP Mathematics 105 or permission of the Department. The theory of matrices as related to the solution of linear equations, matrices as an algebraic system, orthogonality and application to linear differential equations, linear inequalities and maximization problems, vector spaces. (6 credits)

MATHEMATICS C290
Algebraic Systems (Introduction)

Prerequisite: Collegial pre-Science Mathematics profile or equivalent. Sets, functions, binary operations, examples of number systems, polynomial functions, divisibility, definitions and examples of groups and subgroups, fields. (3 credits)

MATHEMATICS C300
Mathematics for Elementary School Teachers I

This course and the following course (C301) are designed to cover the main mathematical topics in the programme-cadre for elementary schools. In both courses the study of the mathematical content will be linked to thorough consideration of classroom applications. A project will be included among the assignments in both courses. In both courses the mathematical language of sets, relations, functions and operations will be applied where appropriate, and various modes of graphical representation used. Counting numbers and systems of numeration, number operations, factors and multiples, numbers as measures, classification and properties of geometrical shapes. (6 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C301
Mathematics for Elementary School Teachers II

This course and the preceding course (C300) are designed to cover the main mathematical topics in the programme-cadre for elementary schools. In both courses the study of the mathematical content will be linked to thorough consideration of classroom applications. A project will be included among the assignments in both courses. In both courses the mathematical language of sets, relations, functions and operations will be applied where appropriate, and various modes of graphical representation used.

The extension of the number system to fractions, decimals and signed numbers. Equalities and inequalities, bases of numera-

tion, introduction to the study of symmetry and geometric transformations. (6 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C302
Transformation Geometry

Prerequisite: Mathematics C301. A more advanced study of symmetry and geometric transformations, applications in 2 and 3 dimensions, an overview of a K-6 programme of geometry. (6 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C303
Measurement

Prerequisite: Mathematics C300. A more advanced study of measures and measurement, descriptive statistics and elementary notions of probability, an overview of a K-6 programme of measurement. (6 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C304
Advanced Topics in Elementary Mathematics

Prerequisite: Permission of the Department. Topics will be scheduled to meet more advanced mathematical needs of students, especially in the light of potential developments in the elementary school curriculum. (6 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C305
Psychology of Mathematics Education

Prerequisite: Any three chosen from Mathematics C300, C301, C302, C303, C304 or permission of the Department. The content of the course will be selected from those areas of psychological theory and research which have implications for the teaching of mathematics. It will normally include: psychological theories of cognition, studies of mathematical learning in children, motivation, applications of research to the classroom. (6 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C307
Selected Topics in Mathematics I

Prerequisite: Permission of the Department. Topics will be chosen to take advantage of competencies and interests of the instructor as well as of the students. (3 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C309
Selected Topics in Mathematics II

Prerequisite: Permission of the Department. Topics will be chosen to take advantage of competencies and interests of the instructor as well as of the student. (3 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C310
Mathematics for the Biological Sciences II

Prerequisite: Mathematics C210 or equivalent. Continuous probability, stochastic processes, population models, systems of linear difference and differential equations. Laplace transforms, signal-flow graphs, systems trajectories, stability, applications to ecology and biology. (3 credits)

MATHEMATICS C311
Numerical Analysis

Prerequisite: Collegial pre-Science mathematics profile or equivalent. Introduction to computers and Fortran, solutions of equations, curve fitting, numerical differentiation and integration, matrix computation, errors. Lectures and laboratory. (3 credits)

MATHEMATICS C312
Numerical Linear Algebra

Prerequisite: Mathematics C281 or equivalent. Linear systems, matrix inversion, relaxation methods, methods of least squares, G-inverses, canonical forms, determination of characteristic values, applications. (3 credits)

MATHEMATICS C322
Mathematical Logic

Prerequisite: 18 credits in post-Collegial Mathematics. This course deals with the mathematical ideas and techniques required to state and prove one of the most spectacular theorems of modern mathematics: Godel's incompleteness theorem establishing the non-algorithmic nature of Arithmetic and hence of most of higher mathematics. The subject involves the study of formal languages and recursive functions and is suitable for students interested in computer science. (3 credits)

MATHEMATICS C325
Actuarial Mathematics

Prerequisite: Mathematics C225. The measure of mortality. Life annuities, life insurance, net annual premiums, net level premium reserves. The expense factor, special topics, population theory. (6 credits)

MATHEMATICS C331
Deterministic Methods of Operations Research

Prerequisite: Mathematics C231. Linear programming, simplex method, revised simplex, duality, dual simplex, method, convex set, convex functions, post optimal analysis, transportation problem, networks. Lagrange multipliers, Kühn-Tucker conditions, search methods, quadratic programming, gradient techniques. (6 credits)

MATHEMATICS C332
Introduction to Game Theory

Prerequisite: 18 credits in post-Collegial Mathematics. Matrix games. Strategies. Optimum strategies and the value of a game. Strictly determined games. Non-strictly determined games and linear programming. Applications. Further material according to interest of instructor and students. (3 credits)

MATHEMATICS C342
Quality Control and Industrial Statistics

Prerequisite: Mathematics C241 or equivalent. Concepts of statistical control; X,R,P and C charts; acceptance sampling inspection, continuous sampling plans, reliability and life tests. (3 credits)

MATHEMATICS C343
Sample Surveys

Prerequisite: Mathematics C241 or equivalent. Simple random sampling, stratified random sampling, systematic sampling, multistage sampling, regression and ratio estimates, non-sampling errors. (3 credits)

MATHEMATICS C344
Regression and Analysis of Variance

Prerequisite: Mathematics C241, C281. Simple, multiple and polynomial regression, analysis of variance and covariance, multiple comparison, computer packages. (6 credits)

MATHEMATICS C345
Mathematical Statistics

Prerequisite: Mathematics C241, C261. Probability, random variable in one or more dimensions, point distributions and transformations, order statistics, sequential hypothesis testing, Bayesian methods, computer simulation of random variables. (6 credits)

MATHEMATICS C347
Non-Parametric Statistical Methods

Prerequisite: Mathematics C241. Chi-square and Kolmogorov-Smirnov goodness-of-Fit tests, the sign, rank and Mann-Whitney Wilcox tests for one and two samples, Kruskal-Wallis tests for k-samples, rank correlation and Kendall's TAU statistics, computer packages. (3 credits)

MATHEMATICS C351
Concepts of Probability

Prerequisite: Mathematics C241. Axiomatic approach to probability, combinatorial probability, discrete and continuous random variables, geometric probability, expectation, conditional probability and conditional expectations, introduction to Markov chains and the Poisson process. (3 credits)

MATHEMATICS C353
Stochastic Processes and Applications

Prerequisite: Mathematics C351. Continuous time stochastic processes. Poisson processes, continuous time Markov processes, queuing models, birth and death processes, renewal theory and reliability of systems. (3 credits)

MATHEMATICS C362
Introduction to Analysis I

Prerequisite: Mathematics C261 and C281. Real number system, cardinality, least upper bounds, limits, sequences, series, properties of continuous functions. (3 credits)

MATHEMATICS C363
Introduction to Analysis II

Prerequisite: Mathematics C362. Riemann integration, fundamental theorem of calculus, sequences and series of functions, uniform convergence, functions of bounded variation; Riemann-Stieltjes integration. (3 credits)

MATHEMATICS C366
Complex Analysis I

Prerequisite: Mathematics C261. Algebra and geometry of complex numbers, linear transformations, analytic functions, Laurent's series, calculus of residues, special functions. (3 credits)

MATHEMATICS C371
Differential Equations II

Prerequisite: Mathematics C271. Numerical methods for ordinary differential equations, relation to existence theorem, solution in power series. Partial differential equations, separation of variables, Fourier series, diffusion equation, wave equation, Laplace's equation, Schrödinger's equation. Separation of variables leading to further applications of power series method. Physical illustrations and problems. (3 credits)

MATHEMATICS C373
Qualitative Theory of Differential Equations

Prerequisite: Mathematics C271. Systems of linear differential equations. Fundamental matrices. Nonhomogeneous linear systems. Non-linear systems. Solutions and trajectories. The phase plane. Stability concepts. Liapunov's second method. Periodic solutions and limit cycles. Introduction to Boundary value problems and Sturm-Liouville theory. (3 credits)

MATHEMATICS C381
Linear Algebra II

Prerequisite: Mathematics C281. Matrices, linear transformations, determinants, metric concepts, inner product spaces, dual spaces, spectral theorem, bilinear and quadratic forms, canonical forms for linear transformations, matrix functions, selected topics. (3 credits)

MATHEMATICS C382
Geometry

Prerequisite: Mathematics C261, C281. An introduction to a number of geometrics both from the historical point of view and in terms of groups of transformations. Particular topics may include Euclidean, projective or hyperbolic geometry. (3 credits)

MATHEMATICS C392
Elementary Number Theory

Prerequisite: 18 credits in post-Collegial Mathematics. Number systems, division and factorization, number-theoretic functions, congruences, algebraic congruences and primitive roots, quadratic residues, diophantine equations. (3 credits)

MATHEMATICS C393
Algebraic Systems I

Prerequisite: Mathematics C290 or permission of the Department. Introduction to algebraic systems: groups, rings, fields, homomorphisms. (3 credits)

MATHEMATICS C394
Algebraic Systems II

Prerequisite: Mathematics C393 or equivalent. Normal subgroups, quotient groups, isomorphism theorems, polynomial rings, principal ideal rings, elementary field theory. (3 credits)

MATHEMATICS C395
Selected Topics in Mathematics

Prerequisite: Permission of the Department. (3 credits)

MATHEMATICS C397
History of Mathematics

Prerequisite: Mathematics C261, C281 or permission of the Department. Early mathe-

matics, Greek mathematics, European mathematics in the Middle Ages, the origin and development of analytic geometry and calculus, mathematics as free creation, the generality of mathematics in the 20th Century. (3 credits)

MATHEMATICS C400
Seminar on the Teaching of Mathematics

Prerequisite: Permission of the Department. This course is conducted in the form of a workshop and examines alternative methods of presentation of mathematical ideas at the secondary school level. It studies relevant aspects of the psychological development of the adolescent in the context of existing mathematics curricula. (3 credits)
NOTE: This course should be taken at the end of the programme. This course is available only to practising teachers.

MATHEMATICS C401
Functions

Prerequisite: Permission of the Department. This course examines the topics in a traditional functions course: the concept of a function and its inverse. Linear and quadratic functions, rational functions, exponential, logarithmic and trigonometric functions. Graphing is stressed. An historical overview is given. Methods of teaching these topics and of preparing secondary school students for a functions course are discussed. (6 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C402
Algebra I

Prerequisite: Mathematics C401 or equivalent previously or concurrently. Natural numbers, integers and their properties. Sequences and progressions. Mathematical induction. Logic. Real numbers, complex numbers. Polynomials. (3 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C403
Calculus I

Prerequisite: Mathematics C401 or equivalent. Functional notation, limits and continuity. Differentiation of polynomials. The power, product, quotient and chain rules. Implicit differentiation. Higher derivatives. Mean value theorem, Rolle's theorem. Maxima and minima. Applications: tangents to plane curves, related rates. The differential, use in finding approximations. Indefinite and definite integrals, areas and volumes. (3 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C404
Geometry for Teachers

Prerequisite: Permission of the Department. Certain fundamentals of the methods of Cartesian, vector and transformation geometry. Applications of these methods to topics presented as informal geometry in grades 7 - 10. Activity oriented. (6 credits)
NOTE: This couse is available only to practising teachers.

MATHEMATICS C405
Calculus II

Prerequisite: Mathematics C403. Differentiation and integration of trigonometric functions. Derivatives of inverse trigonometric functions, logarithmic functions and exponential functions. Methods of integration by parts, by substitution, by separation into partial fractions. Improper integrals, L'Hopital's Rule. Series: Convergence tests, Maclaurin and Taylor Theorems. (3 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C406
Algebra II

Prerequisite: Mathematics C401 or equivalent. Systems of equations, determinants, Cramer's rule. Matrices, operations on matrices, the inverse matrix. Gauss-Jordan method. Matrix transformations. Linear programming. (3 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C407
Topics in Probability and Statistics

Prerequisite: Mathematics C405 or equivalent or permission of the Department. Introduction to, and brief historical survey of, probability and statistics. Techniques for teaching these topics in the junior secondary school curriculum. Application of the techniques of probability and statistics to the interpretation of research results in mathematics education. (6 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C408
Transformation Geometry

Prerequisite: Mathematics C401 or equivalent. Distance preserving motions in the plane, affine transformations with applications in Euclidean geometry. Projective transformations and applications to conics. (3 credits)
NOTE: This course is available only to practising teachers.

MATHEMATICS C409
Computational Mathematics

Prerequisite: Mathematics C401 or equivalent. Introduction to the computer, and to the writing of simple programmes in BASIC. The use of pocket calculators as pedagogic devices. Approximately one-third of the course will be spent on problems related to the secondary school curriculum which can be solved by computer or calculator. (3 credits)
NOTE: This course is available to practising teachers only.

MATHEMATICS C410
Curriculum Seminar

Prerequisite: Permission of the Department. Conducted in the form of a workshop. Examines arithmetical, algebraic and geometrical aspects of the mathematical curricula, grades 7-11. Critical examination of various textbooks and pedagogic approaches used in the schools. (3 credits)
NOTE: This course is available to practising teachers only.

MATHEMATICS C431
Probabilistic Methods of Operations Research

Prerequisite: Mathematics C331. Difference and differential-difference equations, z transforms, stochastic distributions. Markov chains, queuing theory, inventory theory, reliability and renewal theory, competition

and introduction to decision theory, dynamic programming, simulation and Monte Carlo techniques; formulation, testing and stability of mathematical models incorporating uncertainty. (6 credits)

MATHEMATICS C432
Theory of Graphs and Networks

Prerequisite: Permission of the Department. Directed and undirected graphs. Partitions, planar graphs, matrix representation, applications to network theory. (3 credits)

MATHEMATICS C433
Calculus of Variations

Prerequisite: Mathematics C373. Nature of problems, Weak variations, the first variation, Euler's equation. The second variation, Jacobi's equation, Legendre's test, conjugate points. Relative maxima and minima, isoperimetrical problems. Integrals with variable end points. Applications to problems in pure and applied mathematics; the principle of least action. Strong variations, the Weierstrass E-function. (3 credits)

MATHEMATICS C435
Topics in Numerical Analysis

Prerequisite: Mathematics C311, C312 or equivalent. Advanced problems and techniques in numerical linear algebra, systems of non-linear equations, roots of polynomials, spline fitting, mini-max fitting, extrapolation techniques, solution of initial value ordinary differential equations, solution of two-point boundary value problems in ordinary differential equations, elliptic partial differential equations, finite difference and finite element methods for hyperbolic and parabolic partial differential equations. (3 credits)

MATHEMATICS C445
Topics in Statistics

Prerequisite: Mathematics C345 and C351. Topics such as sequential procedures, multivariate analysis, time series, reliability, advanced design of experiments, advanced topics in estimation and hypothesis testing. (3 credits)
NOTE: With permission of the Department students will be allowed to repeat this course as Mathematics C446.

MATHEMATICS C446
Topics in Statistics

Prerequisite: Mathematics C445. Additional topics as in Mathematics C445. (3 credits)
NOTE: Students who have taken Mathematics C445 may register for this course with permission of the Department.

MATHEMATICS C451
Topics in Probability

Prerequisite: Mathematics C351. Topics in Markov Chains, occupancy and matching problems, characteristic functions and moment generating functions, central limits theorem and weak law of large numbers, probability generating functions and applications to combinatorial problems, random walk and the reflection principle, branching processes. (3 credits)

MATHEMATICS C461
Analysis

Prerequisite: Mathematics C362, C363. Metric spaces, completeness, fixed point theorems, Baire's theorem, function spaces, Ascoli-Arzela theorem, Stone-Weierstrass theorem, C [0, 1]. Measure and Lebesgue integration on the real line, convergence theorems, absolute continuity and completeness of L [0, 1]. (6 credits)

MATHEMATICS C466
Complex Analysis II

Prerequisite: Mathematics C363, C366. Cauchy's theorem, singularities, maximum modulus principle, uniqueness theorem, normal families, Riemann mapping theorem. (3 credits)

MATHEMATICS C471
Partial Differential Equations

Prerequisite: Mathematics C371 or C373. Classification of partial differential equations, the Cauchy-Kowalewski theorem, characteristics, boundary value and eigenvalue problems for elliptic equations, initial value and initial boundary value problems for parabolic and hyperbolic equations. (3 credits)

MATHEMATICS C472
Linear Systems

Prerequisite: Mathematics C281, C371 or C373. State space analysis and design of continuous and discrete systems. Controllability and observability, modal control, pole displacement techniques. Luenberger observers, Liapunov stability. (3 credits)

MATHEMATICS C473
Stability Theory of Differential Equations

Prerequisite: Mathematics C373. Existence and uniqueness of solutions of nonlinear differential equations. Properties of solutions. Linear systems. Asymptotic behaviour of linear systems. Stability in nonlinear systems. Linearization. Liapunov functions. Two dimensional systems. Limit cycles. (3 credits)

MATHEMATICS C474
Introduction to Mathematical Control Theory

Prerequisite: Mathematics C363, C472. Linear control systems. Attainable sets; compactness, convexity, continuity in time. Controllability and observability. Time optimal control. Maximum principle. Examples of physical systems. Switching curves. Optimal control with quadratic cost. (3 credits)

MATHEMATICS C475
Topology

Prerequisite: Mathematics C362 or equivalent. An introduction to fundamental ideas in topology. Topics will be chosen from general topology and combinatorial or algebraic topology. These may include compactness and connectedness, topological equivalence, winding number of a curve. Euler characteristic and classification of surfaces. (3 credits)

MATHEMATICS C491
Abstract Algebra I

Prerequisite: Mathematics C394 or equivalent. Sylow theorems, composition series, ideal theory of rings, noetherian rings, modules. (3 credits)

MATHEMATICS C492
Abstract Algebra II

Prerequisite: Mathematics C491 or equivalent. Elements of field and Galois theory including ruler and compass construction and the unsolvability of equations of fifth degree. (3 credits)

MATHEMATICS C495
Advanced Topics in Mathematics

Prerequisite: Permission of the Department. (3 credits)

MATHEMATICS C499
Mathematical Thinking

Prerequisite: Permission of Department. This course is intended to stimulate the student's mathematical creativity and to improve his ability to think systematically, analyze problems and communicate his reasoning. Students participate actively in discussing and solving problems drawn from a variety of sources (including previous Putnam competitions) and are expected to explain their thinking both orally and in writing. Discussions include the following topics: problem posing; Polya's techniques of problem solving; equivalence and similarity of problems; generalization; applications. The problems are selected from: combinatorics, geometry, group theory, number theory, real analysis, etc. (3 credits)

31.23 Modern Languages & Linguistics

Chairman
H. FAMIRA, *Associate Professor of German*

Professor
C. FONDA, *(Acting Chairman) (Linguistics)*

Associate Professors
F. ANTOLIN *(Spanish)*
C. R. BARTON *(Classics and Linguistics)*
A. COSTANZO *(Italian)*
C. DI MICHELE *(Italian)*
J. D. GRAYSON *(Spanish and Linguistics)*
A. M. KETTER *(German)*
J. A. MACALUSO *(Spanish and Italian, Supervisor of Hebrew)*
H. SCHEER *(German and Linguistics)*
A. T. SIDOROW *(Russian)*

Assistant Professor
I. EHMER *(German)*

PROGRAMMES

Students are responsible for satisfying their particular degree requirements

The superscript indicates credit value.

72 BA Joint Honours in English and One of the Modern Languages

6 Chosen from ENGL C256 through C284
6 Chosen from ENGL C286 through C305; C376[6], C377[6], C390[6], C392[6]
6 Chosen from ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]
12 ENGL credits chosen from two different periods to parallel Modern Language courses to be chosen in consultation with the departments
12 Modern Language credits in one language chosen from two different periods to parallel English courses to be chosen in consultation with the departments
18 Elective credits from one modern language
6 ENGL or Modern Language elective credits
6 ENGL C491[6]

60 BA Joint Specialization in English and one of the Modern Languages

6 Chosen from ENGL C256 through C284
6 Chosen from ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]
12 ENGL credits chosen from two different periods to parallel Modern Language courses to be chosen in consultation with the departments
6 ENGL elective credits
12 Modern Language credits in one language chosen from two different periods to parallel English courses to be chosen in consultation with the departments
18 Elective credits chosen from one modern language

72 BA Joint Honours in one of the Modern Languages and in French

6 Chosen from FRAN C270[3], C271[3], C320[6], C321[3], C322[3]
6 FRAN C251[6]
18 In consultation with the French Department
6 FRAN C498[6]
36 Modern Languages: These 36 credits are to be chosen in German, Italian or Spanish in consultation with the Department of Modern Languages and Linguistics. Literature courses will be chosen to parallel as much as possible the choice in French courses.

NOTE: For all Joint Programmes the sequence of courses shall be determined in consultation with the Departments concerned. For any combination of programmes students should consult the Departments.

Generally, all language courses numbered 400 and above are literature courses and are on a similar academic level.

60 BA Honours in German, Italian or Spanish

A student entering any of these programmes with no previous knowledge in the field would take the following sequence of courses in German, Italian or Spanish. Students must consult with the Department prior to selecting their courses.

Year I

18 GERM (or ITAL or SPAN) C210[6], C220[6], C235[6]*

**Students in Italian and Spanish must select 6 credits in consultation with the Department.*

Year II

12 GERM (ITAL or SPAN) C250[6], C255[6]*

**Students in Spanish must select 6 credits in consultation with the Department.*

6 LING C200[6]

Year III

12 GERM (ITAL or SPAN) C300[6], C305[6]
12 credits at the 400 level in the language studied in consultation with the Department.

For students with previous knowledge in the field the programme will be established in consultation with the Department.

42 BA Major in German, Italian or Spanish

A student entering any of these programmes with no previous knowledge in the field would take the following sequence of courses in German, Italian or Spanish. Students must consult with the Department prior to selecting their courses.

Year I

12 Chosen from GERM (or ITAL or SPAN) C210[6], C220[6] and C235[6]

Year II

12 GERM (or ITAL or SPAN) C250[6], C255[6]*

**Students in Spanish must select 6 credits in consultation with the Department*

Year III

18 credits at the 300 level or higher in the language studied in consultation with the Department.

For students with previous knowledge in the field the programme will be established in consultation with the Department.

30 Minor in German, Hebrew, Italian, or Spanish

A student entering any of these programmes with no previous knowledge in the field would take the following sequence of courses in German, Hebrew, Italian, or Spanish. Students must consult with the Department prior to selecting their courses.

Year I

12 Chosen from GERM (or HEBR*, or ITAL or SPAN) C210[6], C220[6], C235[6].

**Students in Hebrew must select 6 credits in consultation with the Department.*

Year II

12 GERM (or HEBR, or ITAL, or SPAN) C250[6] and C255[6]*

**Students in Hebrew or Spanish must select 6 credits in consultation with the Department.*

Year III

6 credits at the 300 level or higher in the language studied in consultation with the Department.

For students with previous knowledge in the field the programme will be established in consultation with the Department.

30 Minor in Russian

Students following a programme in Russian must establish the course sequence in consultation with the Department.

Year I

12 Chosen from RUSS C210[6], C220[6], C235[6]

Year II

6 RUSS C250[6]

12 RUSS C300[6], C420[6], C430[6], C435[6], C470[3], C471[3]

LINGUISTICS

The Department offers an Honours, a Major and a Minor programme in Linguistics.

60 BA Honours in Linguistics

A student entering an Honours Programme in Linguistics will normally take the following courses:

6 LING C200[6]
6 LING C410[3], C411[3]
12 LING C320[3], C321[3], C372[3], C373[3]
12 LING credits chosen at the '300' level
6 Chosen from LING C421[6], C431[6]
6 LING credits chosen at the '400' level
12 credits in Linguistics or 12 credits chosen in consultation with the Department in one of the following: Latin, Greek, Hebrew, Russian, German, Spanish, Italian, French, English, Sociology, Philosophy, Psychology, Armenian, Portuguese

42 BA Major in Linguistics

6 LING C200[6]
12 LING C372[3], C373[3], C410[3], C411[3]
18 LING credits chosen at the '300' and '400' level, in consultation with the Department
6 Elective LING or 6 credits chosen in consultation with the Department

30 BA Minor in Linguistics

6 LING C200[6]
24 credits in Linguistics

Students seeking admission to Honours programmes on or after June 1st, 1977 are bound by the Honours requirements outlined in § 16.2.4 of this Calendar. Students who already had Honours status by June 1st, 1977 will continue to be governed by the requirements which applied at the date of their admission to the Honours programme.

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

Arabic:

ARABIC C451
Literary Arabic

Prerequisite: Linguistics C200 or permission of the Department. This course is designed to give the student in one year a thorough understanding of modern literary Arabic through linguistic analysis of its structure. (6 credits)

NOTE: This course may be taken for credits in the Asian Studies Programme.

German:

GERMAN C210
Introductory Course in German A/B

Prerequisite: Permission of the Department. A beginners' course in the German language which is designed to make the student conversant with grammar, pronunciation and ordinary vocabulary. Equal emphasis placed on speaking and understanding, reading and writing. Can be taken concurrently with German C220 and/or German C235. Lectures and laboratory. (6 credits)

GERMAN C211
Introductory Course in German B

Prerequisite: Permission of the Department. This course is equivalent to the second

term of German C210. It is designed for students who have taken some German at the CEGEP level or equivalent. Can be taken concurrently with German C221 and/or German C235. Lectures and laboratory. (3 credits)

GERMAN C220
Introduction to German Studies A/B

Prerequisite: Permission of the Department. An introductory language course which develops all basic skills. Emphasis on the audio-lingual approach, i.e., on speaking and understanding. May be taken concurrently with German C210 and/or German C235. Lectures and laboratory. (6 credits)

GERMAN C221
Introduction to German Studies B

Prerequisite: Permission of the Department. This course is equivalent to the second term of German C220. It is designed for students who have taken some German at the CEGEP level or equivalent. Can be taken concurrently with German C211 or German C235. Lectures and laboratory. (3 credits)

GERMAN C235
Composition and Translation I

Prerequisite: Permission of the Department. This course will give the student sufficient training to read German and to translate from German into English with reasonable competence. No previous knowledge of German required. Texts will include a variety of reading material of current interest.
NOTE: This course alone may not be used as a prerequisite for advanced courses in German. (6 credits)

GERMAN C250
Intermediate German A/B

Prerequisite: German C210 or C220 or equivalent. Advanced instruction in the language. Emphasis upon idiom and usage in conversation and composition. Readings from German authors and other texts. Lectures and laboratory. (6 credits)

GERMAN C251
Intermediate German B

Prerequisite: Permission of the Department. This course is equivalent to the second term of German C250. It is designed for students who have taken at least four semesters of German at the CEGEP level or equivalent. May be taken concurrently with German C255. (3 credits)
NOTE: Students who have credit for German C250 may not take this course for credits.

GERMAN C255
Composition and Translation II

Prerequisite: German C210 or C220 or equivalent. This course is a continuation of Composition and Translation I and presents more complicated problems of translation from German into English. It is also an introduction to the basic skills of translating English into German. (6 credits)

GERMAN C300
Advanced German Language and Stylistics

Prerequisite: German C250 or C255 or equivalent. This course is intended to give the student increased fluency and a firmer command of the language. The emphasis of the course is on stylistics and composition. (6 credits)

GERMAN C305
Composition and Translation III

Prerequisite: German C255 or equivalent. This course is a continuation of Composition and Translation II and deals with advanced problems and techniques of translation from German and into German. (6 credits)

GERMAN C345
(Also given as History C345)
Germany and Austria in Modern Times

Socio-economic change and the development of nation-states in German Central Europe from the eighteenth century to the present. For advance reading the student might consult *H. Holborn, A History of Modern Germany.* (6 credits)

GERMAN C350
Literature in Translation

A study of representative works of German literature. All reading and lectures will be in English. (6 credits)

ALL COURSES WITH NUMBERS 400 AND HIGHER ARE CONDUCTED IN GERMAN

GERMAN C400
Survey of German Literature 800 to 1600

Prerequisite: GERM C250 or equivalent or permission of the Department. A survey of Old High German, Middle High German and Early New High German literature. (6 credits)

GERMAN C405
German Literature from 1600 to 1750

Prerequisite: GERM C250 or equivalent or permission of the Department. A detailed study of representative writers of the German Baroque, Rococo and Enlightenment. (6 credits)

GERMAN C410
Literature of the Classic Period

Prerequisite: GERM C250 or equivalent or permission of the Department. Pre-classic and classic German literature with its philosophical background. (6 credits)

GERMAN C415
Literature of the Romantic Period

Prerequisite: GERM C250 or equivalent or permission of the Department. Romanticism as a universal attitude. The works of the major German Romanticists and their influence. (6 credits)

GERMAN C420
German Literature of the 19th Century

Prerequisite: GERM C250 or equivalent or permission of the Department. A study of representative works of post-romantic authors and the writers of German Realism. (6 credits)

GERMAN C425
German Literature from 1880 to 1930

Prerequisite: GERM C250 or equivalent or permission of the Department. The development of German literature from Naturalism to the beginnings of Hitler-Germany. (6 credits)

GERMAN C430
Contemporary German Literature

Prerequisite: GERM C250 or equivalent or permission of the Department. Literature in Hitler-Germany, German emigrant literature and post-war literature. (6 credits)

GERMAN C435
History of the German Drama

Prerequisite: GERM C250 or equivalent or permission of the Department. A study of German drama from its beginnings to modern times. (6 credits)

GERMAN C440
A Study of the Deutsche Novelle

Prerequisite: GERM C250 or equivalent or permission of the Department. A study of the Deutsche Novelle from Goethe to Kafka. (6 credits)

GERMAN C445
Reading Course in the Modern German Novel

Prerequisite: GERM C250 or equivalent or permission of the Department. A study of the German novel since 1900. There will be no class periods and students will work under the direct supervision of the instructor. Regular assignments, written and oral examinations will be given. (6 credits)

GERMAN C450
German Poetry from the Middle Ages to Modern Times

Prerequisite: Germ C250 or equivalent or permission of the Department. A survey of German poetry through the centuries. Outstanding examples of representative poets will be studied in detail. (3 credits)

GERMAN C460
The Hörspiel

Prerequisite: GERM C250 or equivalent or permission of the Department. A study of one of the youngest art forms which was developed with the help of and for a new medium, the radio. Literary and technical aspects as well as the most representative writers will be discussed. (3 credits)

GERMAN C470
Study of an Individual German Author I

Prerequisite: GERM C250 or equivalent or permission of the Department. This course will consist of the detailed study of one important German author. (3 credits)

GERMAN C471
Study of an Individual German Author II

Prerequisite: GERM C250 or equivalent or permission of the Department. This course will consist of the detailed study of one important German author. The subject matter of German C470 and German C471 will never be the same in any given year. (3 credits)

GERMAN C480
Tutorial I

Prerequisite: Permission of the Department. Guided readings in German language and/or literature and at least two major assignments to meet the student's individual needs. (3 credits)

GERMAN C481
Tutorial II

Prerequisite: Permission of the Department. Guided readings in German language and/or literature. Written and oral criticism of the works studied. (3 credits)

GERMAN C482
Tutorial III

Prerequisite: Permission of the Department. Guided readings in German language and/or literature and at least two major assignments to meet the student's individual needs. (3 credits)
NOTE: Students who have received credit for German C480 may register for C482 provided the subject matter is different.

GERMAN C483
Tutorial IV

Prerequisite: Permission of the Department. Guided readings in German language and/or literature. Written and oral criticism of the works studied. (3 credits)
NOTE: Students who have received credit for German C481 may register for C483 provided the subject matter is different.

Hebrew:

HEBREW C210
Introductory Course in Hebrew A/B

Prerequisite: Permission of the Department. A beginners' course in Hebrew, spoken and written, with reading of classical and modern texts. Lectures and laboratory. (6 credits)
NOTE: Students who have credits for CEGEP Hebrew 023 or whose schooling has been conducted in Hebrew will not be admitted to this course.

HEBREW C211
Introductory Course in Hebrew B

Prerequisite: Permission of the Department. This course is equivalent to the second term of Hebrew C210. It is designed for students who have taken some Hebrew at the CEGEP level or equivalent. (3 credits)

HEBREW C250
Intermediate Hebrew

Prerequisite: Hebrew C210 or two to three years of high school Hebrew or equivalent. This course consists of a complete review of Hebrew grammar and syntax, with special emphasis on modern Hebrew usage, readings in the Bible and an introduction to modern Hebrew literature. Can be taken concurrently with Hebrew C300. Lectures and laboratory. (6 credits)

HEBREW C300
An Introduction to Biblical Hebrew

Prerequisite: Hebrew C210 or equivalent. A study of classical Hebrew grammar. This course will give the student sufficient training to read, with reasonable competence, classical Hebrew texts as well as the Hebrew Bible. Can be taken concurrently with Hebrew C250. This course is designed especially for students in the Department of Theological Studies. (6 credits)

ALL COURSES WITH NUMBERS 400 HIGHER ARE CONDUCTED IN HEBREW

HEBREW C400
Literature from the Talmudic Period to the Haskalah

Prerequisite: Hebrew C250 or equivalent. Hebrew literature from Talmudic times to the Enlightenment. (6 credits)

HEBREW C410
Medieval Literature (The Golden Age)

Prerequisite: Hebrew C400 or C420 or equivalent. The literature of the Hebrew Golden Age. Outstanding examples of representative writers will be studied in detail. (6 credits)

HEBREW C420
Modern Hebrew Literature

Prerequisite: Hebrew C250 or equivalent. A detailed study of representative writers from the 18th Century to the establishment of the State of Israel. (6 credits)

HEBREW C430
Contemporary Israeli Literature

Prerequisite: Hebrew C250 or equivalent. A study of contemporary Israeli prose and poetry. (6 credits)

HEBREW C480
Tutorial I

Prerequisite: Permission of the Department. A course designed to meet the individual needs of advanced students. Written and oral criticism of the works studied. (3 credits)

HEBREW C481
Tutorial II

Prerequisite: Permission of the Department. A course designed to meet the individual needs of advanced students. Written and oral criticism of the works studied. (3 credits)
NOTE: Students who have received credit for HEBR C480 may register for HEBR C481 providing the subject matter is different.

HEBREW C482
Tutorial III

Prerequisite: Permission of the Department. A course designed to meet the individual needs of advanced students. Written and oral criticism of the works studied. (3 credits)
NOTE: Students who have received credit for HEBR C481 may register for HEBR C482 providing the subject matter is different.

HEBREW C483
Tutorial IV

Prerequisite: Permission of the Department. A course designed to meet the individual needs of advanced students. Written and oral criticism of the works studied. (3 credits)
NOTE: Students who have received credit for HEBR C481 may register for HEBR C483 providing the subject matter is different.

Italian:

ITALIAN C210
Introductory Course in Italian A/B

Prerequisite: Permission of the Department. A beginners' course in the Italian language which is designed to make the student conversant with the grammar, pronunciation and ordinary vocabulary. Equal emphasis is placed on speaking and understanding, reading and writing. Can be taken concurrently with Italian C220. Lectures and laboratory. (6 credits)

ITALIAN C211 B
Introductory Course in Italian

Prerequisite: Permission of the Department. This course is equivalent to the second term of Italian C210. It is designed for students who have taken some Italian at the CEGEP level or equivalent. Can be taken concurrently with Italian C221. Lectures and laboratory. (3 credits)

ITALIAN C220
Introduction to Italian Studies A/B

Prerequisite: Permission of the Department. An introductory language course which develops all basic skills. Audio-visual and audio-lingual techniques are emphasized. Can be taken concurrently with Italian C210. Lectures and laboratory. (6 credits)

ITALIAN C221
Introduction to Italian Studies B

Prerequisite: Permission of the Department. This course is equivalent to the second term of Italian C220. It is designed for students who have taken some Italian at the CEGEP level or equivalent. Can be taken concurrently with Italian C211. Lectures and laboratory. (3 credits)

ITALIAN C235
Composition and Translation I

Prerequisite: Permission of the Department. This course will give the student sufficient training to read Italian and to translate from Italian into English with reasonable competence. No previous knowledge of Italian is required. Texts will include a variety of reading material of current interest. (6 credits)
NOTE: This course alone may not be used as a prerequisite to advanced courses in Italian.

ITALIAN C250
Intermediate Italian A/B

Prerequisite: Italian C210 or C220 or equivalent. Advanced instruction in the language. Emphasis upon idiom and usage in conversation and composition. Readings from Italian authors and other texts. Lectures and laboratory. (6 credits)

ITALIAN C251
Intermediate Italian B

Prerequisite: Permission of the Department. This course is equivalent to the second term of Italian C250. It is designed for students who have taken at least four semesters of Italian at the CEGEP level or equivalent. May be taken concurrently with Italian C255. (3 credits)
NOTE: Students who have credit for Italian C250 may not take this course for credits.

ITALIAN C255
Composition and Translation II

Prerequisite: Italian C210 or C220 or equivalent. This course presents problems of translation from Italian into English and from English into Italian. (6 credits)

ITALIAN C270
Italian for Commerce and Administration

Prerequisite: ITAL C210 or equivalent. This course is intended for students in Commerce and in Business Administration. Emphasis on Commerce terminology and the language of business. (3 credits)

ITALIAN C300
Advanced Italian Language and Stylistics

Prerequisite: Italian C250 or C255 or equivalent. This course is intended to give the student increased fluency and a firmer command of the language. The emphasis of the course is on stylistics and composition. (6 credits)

ITALIAN C305
Composition and Translation III

Prerequisite: Italian C255 or equivalent. This course is a continuation of Composition and Translation II and deals with advanced problems and techniques of translation from Italian and into Italian. (6 credits)

ITALIAN C350
Literature in Translation

A study of representative works of Italian literature. All readings and lectures will be in English. (6 credits)

ITALIAN C360
Italian Civilization

Prerequisite: Italian C250 or C255 or equivalent. A survey of Italy's cultural and scientific achievements. Attention will be given to Italy's social, political and economic life. (6 credits)

ALL COURSES NUMBERED 400 AND HIGHER ARE CONDUCTED IN ITALIAN.

ITALIAN C400
Italian Literature to 1600

Prerequisite: ITAL C250 or C255 or equivalent. A survey of Italian literature of the Middle Ages and Renaissance. Lectures: 3 hours per week. (3 credits)

ITALIAN C401
Italian Literature after 1600

Prerequisite: ITAL C250 or C255 or equivalent. A survey of literary and cultural trends from 1600 to the present. Lectures: 3 hours per week. (3 credits)

ITALIAN C405
Italian Theatre to 1800

Prerequisite: ITAL C250 or C255 or equivalent. Origin and evolution of the Italian Theatre. Emphasis on Goldoni and the *Commedia dell'arte;* Alfieri and tragedy. Lectures: 3 hours per week. (3 credits)

ITALIAN C406
Modern Italian Theatre

Prerequisite: ITAL C250 or C255 or equivalent. A study of representative theatrical works of the nineteenth and twentieth centuries. Particular attention will be given to the innovative theatre of Pirandello. Lectures: 3 hours per week. (3 credits)

ITALIAN C410
Literary Criticism from the Renaissance to the Present

Prerequisite: ITAL C250 or C255 or equivalent. A survey of literary criticism from the Renaissance to the Present. Readings from the critical works of Vico, Foscolo and De Sanctis, Croce. Critical theories and trends of modern Italian criticism. Lectures: 3 hours per week. (3 credits)

ITALIAN C415
Dante

Prerequisite: ITAL C250 or C255 or equivalent. A study of Dante's minor works. Introduction to the *Divina Commedia.* Lectures: 3 hours per week. (3 credits)

ITALIAN C416
"Divina Commedia"

Prerequisite: ITAL C250 or C255 or equivalent. Prerequisite: Italian C415. Analysis of the *Divina Commedia.* Lectures: 3 hours per week. (3 credits)

ITALIAN C420
Petrarch and Early Italian Poetry

Prerequisite: ITAL C250 or C255 or equivalent. A study of poetic works from the poets of the *Scuola siciliana* and the *Dolce stil nuovo.* Emphasis on Petrarch's *Canzoniere.* Lectures: 3 hours per week. (3 credits)

ITALIAN C421
Boccaccio and the Novella

Prerequisite: ITAL C250 or C255 or equivalent. Origin and evolution of the early Italian novella. Emphasis on the *Decameron.* Lectures: 3 hours per week. (3 credits)

ITALIAN C425
Fifteenth-Century Prose and Poetry

Prerequisite: ITAL C250 or C255 or equivalent. The rise of Humanism in Italy. A study of representative prose writings of fifteenth-century authors and a study of the epic and lyric poetry of the fifteenth century: chivalresque poetry in Italy; the lyric poetry of Poliziano and Lorenzo de' Medici. Lectures: 3 hours per week. (3 credits)

ITALIAN C430
The Italian Renaissance

Prerequisite: ITAL C250 or C255 or equivalent. A study of the Italian Renaissance with emphasis on Machiavelli's *Principe* and *La mandragola.* Lectures: 3 hours per week. (3 credits)

ITALIAN C431
Ariosto and Tasso

Prerequisite: ITAL C250 or C255 or equivalent. A study of *Orlando Furioso* and *La Gerusalemme liberata.* Lectures: 3 hours per week. (3 credits)

ITALIAN C435
Seventeenth and Eighteenth-Century Prose

Prerequisite: ITAL C250 or C255 or equivalent. A study of representative scientific, philosophic and literary texts. Emphasis on Galileo, Vico, Goldoni and Alfieri. Lectures: 3 hours per week. (3 credits)

ITALIAN C436
Seventeenth and Eighteenth-Century Poetry

Prerequisite: ITAL C250 or C255 or equivalent. A study of representative poetry of the Baroque and the Enlightenment. Emphasis on Marino, Parini and Alfieri. Lectures: 3 hours per week. (3 credits)

ITALIAN C440
Nineteenth-Century Novel

Prerequisite: ITAL C250 or C255 or equivalent. A study of different approaches to the novel by Italian writers of the nineteenth century. Emphasis on Manzoni and Verga. Lectures: 3 hours per week. (3 credits)

ITALIAN C441
Nineteenth-Century Poetry

Prerequisite: ITAL C250 or C255 or equivalent. Romanticism in Italy. A study of the major poetic works of Foscolo, Manzoni and Leopardi. Lectures: 3 hours per week. (3 credits)

ITALIAN C445
Twentieth-Century Novel

Prerequisite: ITAL C250 or C255 or equivalent. A study of representative novelistic works of this century. Lectures: 3 hours per week. (3 credits)

ITALIAN C446
Modern Italian Poetry

Prerequisite: ITAL C250 or C255 or equivalent. A study of the principal literary trends in modern Italian poetry. Lectures: 3 hours per week. (3 credits)

ITALIAN C480
Tutorial I

Prerequisite: Permission of the Department. A course designed to meet the individual needs of advanced students. Guided readings in Italian language and/or literature. Written and oral criticism of the works studied. (3 credits)

ITALIAN C481
Tutorial II

Prerequisite: Permission of the Department. A course designed to meet the individual needs of advanced students. Guided readings in Italian language and/or literature. Written and oral criticism of the works studied. (3 credits)

ITALIAN C482
Tutorial III

Prerequisite: Permission of the Department. A course designed to meet the individual needs of advanced students. Guided readings in Italian language and/or literature. Written and oral criticism of the works studied. (3 credits)
NOTE: Students who have received credit for ITAL C480 may register for ITAL C482 provided the subject matter is different.

ITALIAN C483
Tutorial IV

Prerequisite: Permission of the Department. A course designed to meet the individual needs of advanced students. Guided readings in Italian language and/or literature. Written and oral criticism of the works studied. (3 credits)
NOTE: Students who have received credit for ITAL C481 may register for ITAL C483 provided the subject matter is different.

Linguistics:

LINGUISTICS C200
Introduction to Linguistics

Introduction to the principles of general linguistics. Basic phonetics and phonemics. Emphasis on synchronic linguistic analysis, with a brief introduction to historical and comparative linguistics. (6 credits)

LINGUISTICS C300
Sociolinguistics I

The interaction of linguistic and social structures. Regional and social linguistic variations. Social variables. Linguistic variations and linguistic theory. Attitudes towards linguistics variety and educational policies. The social psychology of language choice. Language problems and literacy. Users and uses of language. Social processes in linguistic structure. Lectures: 3 hours per week. (3 credits)

LINGUISTICS C301
Sociolinguistics II

Prerequisite: Linguistics C300 or permission of the Department. Directions in sociolinguistics. The Whorf-Sapir hypothesis. Conceptual categories in primitive communities. Ethnography or cognitive systems. American-Indian grammatical categories. Lectures: 3 hours per week. (3 credits)

LINGUISTICS C310
Historical and Comparative Linguistics I

Prerequisite: LING C200 or permission of the Department. The nature of language. Traditional, historical, structural, transformational grammars. Structural variations in language. (3 credits)
NOTE: Students who have received credit for LING C210 may not take this course for credit.

LINGUISTICS C311
Historical and Comparative Linguistics II

Prerequisite: LING C310 or permission of the Department. The comparative method. Application of the comparative method. Reconstruction of protoforms. Reconstruction of words and meanings. The method of internal reconstruction and its applications. (3 credits)
NOTE: Students who have received credit for LING C211 may not take this course for credit.

LINGUISTICS C320
Semantics I

Prerequisite: LING C200 or equivalent or permission of the Department. Linguistic history of semantics. The emotive elements in name and sense. Central and contextual meaning, feeling, tone. Synonymy, homonymy, polysemy. Synchronic and diachronic semantics. Lectures: 3 hours per week. (3 credits)

LINGUISTICS C321
Semantics II

Prerequisite: Linguistics C320 or permission of the Department. Theory of change. (Meillet, Wundt, Gustaf Sterne, Hans Sperber, Briel, Sturtevant). Classifications of changes of meaning: genetic, causal, functional. Changes of model and changes of syntax. The Port Royal grammarians. Synes-

thesia and pseudosynesthesia. Panchronistic statistical laws. Lectures: 3 hours per week. (3 credits)

LINGUISTICS C330
Anthropological Linguistics I

Prerequisite: Linguistics C200 or equivalent. Theories about the development of language in mankind and individuals. The characteristics of human language as opposed to animal languages and other communication systems. Similarity and diversity among languages. Lectures: 3 hours per week. (3 credits)

LINGUISTICS C331
Anthropological Linguistics II

Prerequisite: Linguistics C330 or permission of the Department. Speech surrogates and paralanguage. Language and thought in primitive communities. Swadesh, Sapir, Whorf's theories on some American-Indian languages. Linguistic change and reconstruction. Lectures: 3 hours per week. (3 credits)

LINGUISTICS C360
Language and Thought I

Prerequisite: Linguistics C200 or equivalent. Meaning and the structure of languages. Grammar, competence and performance. Language and perception. Universals in linguistic theory. Lectures: 3 hours per week. (3 credits)

LINGUISTICS C361
Language and Thought II

Prerequisite: Linguistics C360 or permission of the Department. Cognition and the development of language. The cognitive basis of language learning in infants. Linguistic relativism. The structure of the psychological lexicon. Psychological models of bilingualism. Computer and linguistic processes. Lectures: 3 hours per week. (3 credits)

LINGUISTICS C372
Descriptive and Instrumental Phonetics

Prerequisite: LING C200 or permission of the Department. Description of speech sounds in articulatory terms. Identification and description of sounds which occur outside the Indo-European family of languages. Description of speech sounds as to their acoustic qualities: frequency, amplitude, pitch, stress. Interpretation of sound spectrograms. (3 credits)
NOTE: Students who have received credit for LING C370 and C371 may not take this course for credit.

LINGUISTICS C373
Phonemic Analysis

Prerequisite: LING C200 and/or LING C372 or permission of the Department. The fundamentals of distinctive feature analysis as developed by Jakobsen, Chomsky and Halle. Both theoretical concepts and notational techniques will be emphasized. Extensive training in data analysis and rule writing. (3 credits)
NOTE: Students who have received credit for LING C417 may not take this course for credits.

LINGUISTICS C410
Theory of Morphology and Syntax I

Prerequisite: Linguistics C200 or equivalent. Traditional grammar and syntax. Structuralist grammar and syntax. Lectures: 3 hours per week. (3 credits)

LINGUISTICS C411
Theory of Morphology and Syntax II

Prerequisite: C410 or permission of the Department. The theory of generative grammar. Phrase structure rules and specific transformational rules. Metatheoretical constraints. Theories of syntactic structures. Lectures: 3 hours per week. (3 credits)

LINGUISTICS C421
Non-Indo-European Structures

Prerequisite: Linguistics C200 and Linguistics C370 either previously or concurrently or permission of the Department. This course is intended to give the student an acquaintance in depth with the structures of several languages differing markedly in their nature from Indo-European. Possible areas of study might be Eskimo, Finnish, Japanese, Swahili, Turkish, some Amerindian or Malayo-Polynesian language, etc. As a general rule, only four languages are investigated in a particular year. (6 credits)
NOTE A/See § 200.1

LINGUISTICS C431
Comparative Indo-European Linguistics

Prerequisite: Linguistics C200 or permission of the Department. Through a comparative study of the phonology of the various branches of the Indo-European language family (Indo-Iranian, Hellenic, Italic, Germanic, Slavic, Baltic, etc.,) this course will familiarize the student with the techniques used in linguistic reconstruction. Emphasis will be given to the development and differentiation of languages through time. (6 credits)

LINGUISTICS C492
Special Topics in Linguistics I

Prerequisite: Permission of the Department. This course offers an opportunity for detailed examination of a particular area of Linguistics. (3 credits)

LINGUISTICS C493
Special Topics in Linguistics II

Prerequisite: Permission of the Department. This course is offered as a continuation of Linguistics C492, but can also be taken as a separate 3-credit course. (3 credits)

Modern Languages:

MODERN LANGUAGES C200
Fundamentals in the Study of a Modern Language

Prerequisite: Permission of the Department. In this course students are introduced to the study of a modern language in which the department does not offer a full programme. The language studied may vary from year to year. Emphasis on understanding, reading and writing. Lectures and laboratory. (6 credits)

MODERN LANGUAGES C300
Special Topics in the Study of a Modern Language I

Prerequisite: MODL C200 or Permission of the Department. This course is designed for students with a fair knowledge of a modern language in which the department does not offer a full programme and who require instruction in special topics in oral and written expression. The language studied may vary from year to year. Lectures and laboratory. (3 credits)

MODERN LANGUAGES C301
Special Topics in the Study of a Modern Language II

Prerequisite: MODL C200 or permission of the Department. A student repeating MODL C300 registers for MODL C301 provided the subject matter is different. (3 credits)

MODERN LANGUAGES C400
Advanced Topics in the Study of a Modern Language I

Prerequisite: Permission of the Department. This course is designed for students with a good knowledge of a modern language in which the department does not offer a full programme. Selected topics in the language and/or literature are studied in depth. (3 credits)

MODERN LANGUAGES C401
Advanced Topics in the Study of a Modern Language II

A student repeating MODL C400 for credits registers under MODL C401 provided the subject matter is different. (3 credits)

Portuguese:

PORTUGUESE C400
Portuguese Language and Literature

Prerequisite: Spanish C235 or C250 or equivalent and any 6 credits at the 400-level in Spanish. A course designed for advanced Spanish students. Readings in Portuguese begin as early as the second week of class. (6 credits)

Russian:

RUSSIAN C210
Introductory Course in Russian I A/B

Prerequisite: Permission of the Department. A beginners' course in the Russian language which is designed to acquaint the student in one year with pronunciation, the main grammatical aspects and a basic vocabulary. Emphasis is placed on speaking, reading and writing Russian. May be taken concurrently with Russian C220 and/or C235. Lectures and laboratory. (6 credits)

RUSSIAN C211
Introductory Course in Russian II B

Prerequisite: Permission of the Department. This course is equivalent to the second term of Russian C210. It is designed for students who have taken some Russian at the CEGEP level or equivalent. May be taken concurrently with Russian C210 and/or C235. Lectures and laboratory. (3 credits)

RUSSIAN C220
Introduction to Russian Studies A/B

Prerequisite: Permission of the Department. An introductory language course which develops all basic skills. Emphasis on the audio-lingual approach, i.e., on speaking and understanding. May be taken concurrently with Russian C210 and/or Russian C235. Lectures and laboratory. (6 credits)

RUSSIAN C221
Introduction to Russian Studies II B

Prerequisite: Permission of the Department. This course is equivalent to the second term of Russian C220. It is designed for students who have taken some Russian at the CEGEP level or equivalent. May be taken concurrently with Russian C211 or Russian C235. Lectures and laboratory. (3 credits)

RUSSIAN C235
Composition and Translation I

Prerequisite: Permission of the Department. This course will give the student sufficient training to read Russian and to translate from Russian into English with reasonable competence. No previous knowledge of Russian required. Texts will include a variety of reading material of current interest.
NOTE: This course alone may not be used as a prerequisite for advanced courses in Russian. (6 credits)

RUSSIAN C250
Intermediate Russian

Prerequisite: Russian C210 or C220 or equivalent. A complete review of grammar and practice in composition, reading and conversation. Through reading of short stories and additional material, the student is given the opportunity to gain acquaintance with Russian culture and literature. Lectures and laboratory. (6 credits)

RUSSIAN C255
Composition and Translation II

Prerequisite: RUSS C210 or C220 or equivalent. This course is a continuation of Composition and Translation I and presents more complicated problems of translation from Russian into English. It is also an introduction to the basic skills of translating English into Russian. (6 credits)

RUSSIAN C300
Advanced Russian Language and Stylistics

Prerequisite: Russian C250 or equivalent. This course is intended to give the student increased fluency and a firmer command of the language. The emphasis of the course is on stylistics and composition. Lectures. (6 credits)

RUSSIAN C305
Composition and Translation III

Prerequisite: RUSS C255 or equivalent. This course is a continuation of Composition and Translation II and deals with advanced problems and techniques of translation from Russian and into Russian. (6 credits)

RUSSIAN C350
Literature in Translation

A study of representative works of Russian literature. All readings and lectures will be in English. (6 credits)

ALL COURSES WITH NUMBERS 400 AND HIGHER ARE CONDUCTED IN RUSSIAN.

RUSSIAN C420
Introduction to 19th Century Russian Literature through the Short Story

Prerequisite: Russian C250 or equivalent. The short story will be used both as a subject for literary study and as a reflection of the history and social preoccupation of the period. Opportunity will be provided for discussion and some attention will be paid to composition. (6 credits)

RUSSIAN C430
Soviet Literature

Prerequisite: Russian C250 or equivalent. A general survey of Soviet prose, drama and poetry from 1917 to the present day. The aim of the course is to familiarize the student not only with the literature itself but also with its origins and development. Opportunity will be provided for discussions and some time will be devoted to advanced composition. (6 credits)

RUSSIAN C435
Russian Drama

Prerequisite: Russian 250 or equivalent. The course traces the development of Russian drama from the end of the 18th century to the present day. (6 credits)

RUSSIAN C470
Study of an Individual Russian Author I

Prerequisite: Russian C250 or equivalent. This course will consist of the detailed study of a Russian author. (3 credits)

RUSSIAN C471
Study of an Individual Russian Author II

Prerequisite: Russian C250 or equivalent. This course will consist of the detailed study of a Russian author. (3 credits)

RUSSIAN C480
Tutorial I

Prerequisite: Permission of the Department. Guided readings in Russian literature and/or language and at least two major assignments to meet the student's individual needs. (3 credits)

RUSSIAN C481
Tutorial II

Prerequisite: Permission of the Department. Guided readings in Russian literature and/or language and at least two major assignments to meet the student's individual needs. (3 credits)
NOTE: Students who have received credit for RUSS C480 may register for RUSS C481 provided the subject matter is different.

Spanish:

SPANISH C210
Introductory Course in Spanish A/B

Prerequisite: Permission of the Department. A comprehensive and thorough introductory language course for the student with little or no knowledge of Spanish. Practice is given in reading, writing and conversation, particular emphasis being placed on oral work. In the second term classes are conducted, as far as possible, in Spanish. Lectures and laboratory. (6 credits)

SPANISH C211
Introductory Course in Spanish B

Prerequisite: Permission of the Department. This course is equivalent to the second term of Spanish C210. It is designed for students who have taken some Spanish at the CEGEP level or equivalent. May be taken concurrently with Spanish C221. Lectures and Laboratory. (3 credits)

SPANISH C220
Introduction to Spanish Studies A/B

Prerequisite: Permission of the Department. An introductory language course that develops all basic skills, with emphasis on the audio-visual approach, i.e., on speaking and understanding. Lectures and laboratory. (6 credits)

SPANISH C221
Introduction to Spanish Studies B

Prerequisite: Permission of the Department. This course is equivalent to the second term of Spanish C220. It is designed for students who have taken some Spanish at the CEGEP level or equivalent. May be taken concurrently with Spanish C211. Lectures and Laboratory. (3 credits)

SPANISH C235
Composition and Translation I

Prerequisite: Permission of the Department. This course will give the student sufficient training to read Spanish and to translate from Spanish into English with reasonable competence. No previous knowledge of Spanish required. Texts will include a variety of reading material of current interest.
NOTE: This course alone may not be used as a prerequisite for advanced courses in Spanish. (6 credits)

SPANISH C250
Intermediate Spanish A/B

Prerequisite: Spanish C210 or C220 or equivalent. Included in this course are a complete review of Spanish grammar and a study of some advanced aspects of usage. Composition and oral practice are emphasized. Selected short stories and novels, through which the student will become familiar with some aspects of Hispanic letters and civilization, will be read during the year. This class will be conducted in Spanish. (6 credits)

SPANISH C251
Intermediate Spanish B

Prerequisite: Permission of the Department. This course is equivalent to the second term of Spanish C250. It is designed for students who have taken at least four semesters of Spanish at the CEGEP level or equivalent. May be taken concurrently with Spanish C255. This class will be conducted in Spanish. (3 credits)
NOTE: Students who have taken Spanish C250 may not take this course for credit.

SPANISH C255
Composition and Translation II

Prerequisite: SPAN C210 or C220 or equivalent. This course offers a complete review of Spanish grammar and deals with some advanced aspects of usage. Translation techniques are especially emphasized.

Readings include novels and short stories. (6 credits)
NOTE: Students who have received credit for Spanish C235 prior to 1980-81 may not take this course for credit.

SPANISH C270
Spanish for Commerce and Administration

Prerequisite: SPAN C210 or equivalent. This course is intended for students in Commerce and Business Administration. Emphasis on Commerce terminology and the Language of Business. (3 credits)

SPANISH C300
Advanced Composition and Stylistics

Prerequisite: SPAN C250 or C255 or equivalent. A course to treat in detail the finer points of Spanish stylistics. Special attention is given to creative composition and semantics. (6 credits)

SPANISH C305
Composition and Translation III

Prerequisite: SPAN C250 or C255 or equivalent. This course offers to the advanced student practice in translation from English and French into Spanish. Specimen texts will include literary prose, commerce letters, journalistic articles and a variety of material of current interest. (6 credits)

SPANISH C360
Spanish Civilization

Prerequisite: SPAN C250 or C255 or equivalent. This course is designed to acquaint the student with Spain's intellectual and cultural history as reflected in her writers. Although it is primarily concerned with ideas and aesthetics, attention will also be given to the development of language, customs and folklore. (6 credits)

SPANISH C361
Spanish-American Civilization

Prerequisite: SPAN C250 or C255 or equivalent. A study of the development of Spanish-American civilization from pre-Columbian times to the present. The student will trace Spanish-American cultural and political thinking from Colonial times to the present as reflected in the literature. (6 credits)

UNLESS OTHERWISE INDICATED, ALL COURSES WITH NUMBERS 400 AND HIGHER WILL BE CONDUCTED IN SPANISH

SPANISH C405
The Middle Ages

Prerequisite: SPAN C250 or C255 or equivalent. Study of literary works form the 12th to the 15th centuries. Particular emphasis will be placed on the *Poema de mio Cid,* the *Libro del buen Amor* and the *Celestina.* (6 credits)

SPANISH C410
The Golden Age

Prerequisite: SPAN C250 or C255 or equivalent. This course is designed to introduce to the student the Masterpieces of Spain's Siglo de Oro. Particular emphasis is given to Cervantes' *Don Quijote.* Analysis of some of the works of Lope, Tirso and Calderón. (6 credits)

SPANISH C415
Literature of the 18th and 19th Centuries

Prerequisite: SPAN C250 or C255 or equivalent. A study of representative works of prose, poetry and theatre of the writers of the 18th and 19th centuries with particular attention given to such literary movements as romanticism, realism and naturalism. (6 credits)

SPANISH C420
The Generation of 1898

Prerequisite: SPAN C250 or C255 or equivalent. A study of the major writers of this generation: Unamuno, Valle-Inclán, Machado, Baroja, Azorin, Maeztu, etc. (3 credits)

SPANISH C425
The Group of 1927

Prerequisite: SPAN C250 or C255 or equivalent. Analysis of the poetry and theatre of Garcia Lorca and his contemporaries: Juan Ramón Jiménez, Guillén, Alberti, and others. (3 credits)

SPANISH C430
Post-Civil War Literature

Prerequisite: SPAN C250 or C255 or equivalent. General characteristics of literature since the Civil War. A study of some of the following authors will be undertaken: Cela, Matute, Ferlosio, Martin-Santos, Sender, Goytisolo, etc. (3 credits)

SPANISH C435
The Short Story: Spain

Prerequisite: SPAN C250 or C255 or equivalent. A seminar on the principal writers of short stories in Spain. (3 credits)

SPANISH C440
Romanticism and Modernism in Spanish America

Prerequisite: SPAN C250 or C255 or equivalent. A study of the principal works and authors of these movements. (3 credits)

SPANISH C445
Contemporary Spanish-American Literature

Prerequisite: SPAN C250 or C255 or equivalent. A study of the major works of some of the following authors: Carpentier, Rulfo, Paz, Fuentes, Asturias, Garcia Márquez, Roa Bastos, Vargas Llosa, Borges, Cortázar, etc. (3 credits)

SPANISH C450
Mexican Literature

Prerequisite: SPAN C250 or C255 or equivalent. A study of selected works from pre-Columbian times to the present. (3 credits)

SPANISH C455
The Short Story: Spanish America

Prerequisite: SPAN C250 or C255 or equivalent. A seminar on the principal writers of short stories in Spanish America. (3 credits)

SPANISH C460
History of the Spanish Language

Prerequisite: Linguistics C200 and Spanish C235 or C250 or equivalent. A study of the origins of the Spanish language from Vulgar

Latin into Old Spanish and thence through the centuries. Attention will also be given to non-Latin contributions to the Spanish lexicon, stylistic development and, especially, the parallel development of the other Romance vernaculars. This course will be conducted in English. (6 credits)

SPANISH C480
Tutorial I

Prerequisite: Permission of the Department. Guided readings in Spanish or Spanish-American language and/or literature to meet the student's individual needs. (3 credits)

SPANISH C481
Tutorial II

Prerequisite: Permission of the Department. Guided readings in Spanish or Spanish-American language and/or literature to meet the student's individual needs. (3 credits)
NOTE: Students who have received credit for SPAN C480 may register for SPAN C481 provided the subject matter is different.

SPANISH C482
Tutorial III

Prerequisite: Permission of the Department. Guided readings in Spanish or Spanish-American language and/or literature to meet the student's individual needs. (3 credits)
NOTE: Students who have received credit for SPAN C481 may register for SPAN C482 provided the subject matter is different.

SPANISH C483
Tutorial IV

Prerequisite: Permission of the Department. Guided readings in Spanish or Spanish-American language and/or literature to meet the student's individual needs. (3 credits)
NOTE: Students who have received credit for SPAN C482 may register for SPAN C483 provided the subject matter is different.

31.24 Philosophy

Chairman
A. KAWCZAK, *Professor*

Professors
R. B. ANGEL
S. G. FRENCH
E. JOOS
D. LASKEY
D. PARK

Associate Professors
M. AHMAD
C. ALLEN
J. DOYLE
E. EGAN
C. GRAY
H. LAU
J. McGRAW
V. McNAMARA
D. O'CONNOR
J. ORNSTEIN
M. REIDY
V. ZEMAN

Assistant Professor
S. MULLETT

The Philosophy Department offers a number of programmes of study which include: Honours, Specialization, Major and Minor and certain joint programmes. Double majors programmes are also offered in consultation with other departments. The Philosophy Department should be consulted for information concerning these programmes. Seminars and tutorials are offered mainly for students in a programme in Philosophy. In addition courses are offered to students with a general or specific interest in Philosophy.

Students enrolled in Philosophy programmes are required to confirm their status during the second week of lectures of each year, with the Department.

Students admitted to the Honours programme on or after June 1st 1977 will be bound by the Honours requirements outlined in § 16.2.4 of this Calendar. Students who already had Honours status by June 1st 1977 will continue to be governed by the requirements which applied at the date of their admission to the Honours programme.

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Honours in Philosophy

Year I
6 Chosen from PHIL C201^3 and C223^3, C202^6
6 PHIL C241^6
6 PHIL C310^6
Year II
6 Chosen from PHIL C226^3 and C228^3, C321^6
6 PHIL C412^6
6 PHIL elective or cognate credits*
Year III
6 Chosen from PHIL C313^6, C410^6, C469^6
6 Chosen from PHIL C421^6, C449^6, C485^6, C486^3, C488^3
6 PHIL C460^6
6 *PHIL elective credits at the 400 level
*PHIL elective and cognate credits to be chosen in consultation with the Department.

NOTE: Students preparing for graduate work should acquire a good reading knowledge of a related modern language or of Classical Greek or Latin.

60 BA Specialization in Philosophy

Year I
6 Chosen from PHIL C201^3 and C223^3, C202^6
6 PHIL C241^6
6 PHIL C310^6
Year II
6 Chosen from PHIL C226^3 and C228^3, C321^6
6 PHIL C412^6
6 PHIL elective or cognate credits*
Year III
6 Chosen from PHIL C313^6, C410^6, C469^6
6 Chosen from PHIL C421^6, C449^6, C485^6, C486^3, C488^3
6 PHIL C460^6
6 PHIL elective credits at the 400 level*
**PHIL elective and cognate credits to be chosen in consultation with the department.*

36 BA Major in Philosophy

Year I
6 Chosen from PHIL C201^3 and C223^3, C202^6
6 PHIL C310^6
Year II and III
6 Chosen from PHIL C241^6, C410^6, C412^6
6 Chosen from PHIL C313^6, C412^6, C469^6
12 PHIL elective credits to be chosen in consultation with the Department.

24 Minor in Philosophy

6 Chosen from PHIL C201^3 and C223^3, C202^6, C211^6
18 PHIL elective credits to be chosen in consultation with the Department.

72 BA Joint Honours in Education and Philosophy

Year I
9 EDUC C210[6], C230[3]
6 Chosen from PHIL C201[3] and C223[3], C202[6], C211[6]
6 Chosen from PHIL C226[3] and C228[3], C310[6]

Year II
6 EDUC C430[6]
6 Chosen from PHIL C348[6], C350[6], C352[6], C460[6]
6 Chosen from EDUC C421[6], C426[3], C427[3], C441[6]
6 Chosen from PHIL C241[6], C338[3], C353[3], C456[6]

Year III
6 EDUC C431[6]
3-6 Chosen from EDUC C432[3], C433[3], C434[3], C435[3] in consultation with the Education Department
6 Chosen from PHIL C313[6], C412[6], C417[6], C469[6]
6 PHIL elective credits at 400 level

Years II or III
3-6 Chosen from EDUC C413[3], C414[3], C416[3], C417[3]

72 BA Joint Honours in English and Philosophy

6 Chosen from ENGL C256 through C284
6 Chosen from ENGL C286 through C305; C376[6], C377[6], C390[6], C392[6]
6 ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]
12 ENGL credits related to the area(s) of philosophical concentration to be chosen in consultation with the departments
6 ENGL or other credits chosen in consultation with the Departmental Honours Adviser
6 Chosen from PHIL C201[3] and C223[3], C202[6], C211[6]
6 Chosen from C226[3] and C228[3], C241[6], C321[6]
6 Chosen from PHIL C310[6], C312[6], C313[6], C331[6]
6 Chosen from PHIL C353[3], C449[6], C469[6], C485[6], C486[3], C488[3]
6 Chosen from PHIL C348[6], C410[6], C412[6], C417[6], C455[6], C456[6]
6 PHIL elective credits at 300 or 400 level

72 BA Joint Honours in Philosophy and History

Year I
6 HIST C218[6]
6 Chosen from PHIL C201[3] and C223[3], C202[6], C211[6]

Year II
6 HIST C390[6] or PHIL C352[6] in consultation with the Philosophy or History Department
12* Chosen from HIST C328[6], C330[6], C334[6], C336[6]
6 Chosen from PHIL C241[6], C244[6], C313[6], C460[6]
6 Chosen from PHIL C310[6], C341[6], C412[6]

Year III
6 HIST C493[6]
6 Chosen from PHIL C345[6], C417[6], C485[6], C486[3], C488[3]
6 HIST elective credits at 400 level in consultation with the Departmental Honours Adviser
6 Chosen from PHIL C348[6], C456[6], C471[3], C472[3], C493[6]
6 PHIL elective credits at 300 or 400 level in consultation with the Departmental Honours Adviser

**6 of these credits may be taken in Year III*

72 BA Joint Honours in Sociology and Philosophy

18 SOCI C200[6], C300[6], C409[6]*
6 Chosen from ANTH C211[6], SOCI C400[6], C401[6], C405[6]
12 Chosen from SOCI C320[6], C325[6], C330[6], C340[6], C360[6], C370[6], C435[6] and C460[6]
6 Chosen from PHIL C201[3] and C223[3], C202[6], C211[6]
6 Chosen from PHIL C224[6], C226[3], C228[3], C244[6], C245[3], C321[6]
6 Chosen from PHIL C241[6], C343[6], C345[6], C348[6], C460[6]
6 Chosen from PHIL C310[6], C313[6], C350[6], C417[6], C469[6], C485[6]
12 Chosen from PHIL C341[6], C342[3], C344[3], C346[3], C347[3], C352[6], C412[6], C421[6], C449[6], C453[6], C493[6], C496[3]

**On approval of the Honours Adviser, the prerequisites for SOCI C409 may be modified for students in this programme.*

72 BA Honours in Philosophy and Religion

12 Chosen from RELI C211[6], C213[6], C301[3], C302[3]
6 RELI C443[6]
6 Chosen from RELI C363[6], C364[6]
6 Chosen from RELI C361[6], C362[6], C465[6]
6 Chosen from RELI C311[6], C312[6], C313[6], C326[3], C327[3], C328[3], C491[6], C492[6]
6 Chosen from PHIL C201[3] and C223[3], C202[6], C211[6]
6 PHIL C460[6]
6 Chosen from PHIL C226[3] and C228[3], C321[6], C469[6]
6 Chosen from PHIL C469[6], C485[6]
6 Chosen from PHIL C241[6], C310[6], C312[6], C313[6], C331[6], C334[3] and C335[3], C342[3], C344[3], C346[3], C353[3], C469[6]
6 Chosen from PHIL C321[6], C334[3] and C335[3], C386[3], C412[6], C417[6], C485[6], C456[6], C493[6]

48 BA Major in Political Philosophy

18 POLI C270[6], C370[6], C470[6]
6 Chosen from PHIL C201[3] and C223[3], C202[6], C211[6]
24 Chosen from PHIL C342[3], C344[3], C346[3], C469[6], C412[6], C417[6], POLI C372[6], SOCI C300[6]

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

PHILOSOPHY C201
Problems of Philosophy

This course is designed for students who wish to be acquainted with philosophy through problems rather than through the historical approach. Methods used in Philosophy will be discussed and topics such as the existence of God, the mind-body problem, freedom and determinism, rights and duties, will be used to illustrate philosophical approaches. (3 credits)

PHILOSOPHY C202
Introduction to Philosophy

A study of basic questions in the major areas of philosophy and the classical attempts to answer them. (6 credits)

PHILOSOPHY C211
Philosophical Classics

A critical discussion of selected philosophical classics. Readings will be chosen from Plato, Aristotle, Descartes, Hume, Kant and one recent or contemporary philosopher. (6 credits)

PHILOSOPHY C223
Critical Thinking

This course is designed to help students to think more clearly and critically and to improve their ability to present, defend and evaluate arguments. Sample topics may include the nature of definition, validity and truth, formal and informal fallacies. (3 credits)

PHILOSOPHY C224
Introduction to Logic

A study of the basic elements of Aristotelian and modern logic, including an analysis of argumentation, language, definition, fallacies, deduction and induction. (6 credits)

PHILOSOPHY C226
Elementary Deductive Logic

This course begins with an analysis of syllogistic logic and proceeds to an extensive treatment of propositional logic. The course will conclude with an examination of the rudiments of predicate logic. The techniques of constructing formal derivations will be included. (3 credits)
NOTE: This course may be taken for credits in the Science and Human Affairs Programme.

PHILOSOPHY C228
Methods of Enquiry

A study of the methods and structure of basic types of organized knowledge: mathematics, science, history and normative disciplines. This course will discuss crucial concepts in scientific methodology, such as axiomatic system, the hypothetico-deductive method and scientific explanation. (3 credits)
NOTE: This course may be taken for credits in the Science and Human Affairs Programme.

PHILOSOPHY C230
Human Identity

A critical examination of some theories of human identity, including reference to male and female identity, the unity of self, and transcendence of self. Works will be selected from the history of philosophy, literature and the social sciences. (3 credits)

PHILOSOPHY C231
Introduction to General Systems Theory

An elementary survey of the transdisciplinary general systems approach. Such basic concepts as structure information and regulation will be explored and a teleological framework suited to the social and behavioural sciences will be developed. (6 credits)
NOTE: This course may be taken for credits in the Science and Human Affairs Programme.

PHILOSOPHY C240
Philosophy of Man

A study of representative classical and contemporary positions on human nature, action and life. Such topics as knowledge, affectivity, freedom, person, will be treated. (6 credits)

PHILOSOPHY C241
Ethics

A study of the principles underlying moral conduct with reference to classical and contemporary positions. (6 credits)

PHILOSOPHY C244
Social and Political Philosophy

Prerequisite: 6 credits in Philosophy or the permission of the Department. This course treats of the individual in relation to the State and Society through the reading and discussion of selected texts. Problems treated: political authority, its sources and varieties; the limits of political authority; classical images of man; personality and society; the paradox of social control. (6 credits)

PHILOSOPHY C245
Philosophy and Society

The purpose of this course is to introduce students to the philosophical treatment of social problems. Examples would include conceptions of man as individual and as citizen, as free and as determined, as well as conceptions of the state and of the community. (3 credits)

PHILOSOPHY C246
Introduction to Philosophy of Religion

This course examines the classical arguments for the existence of God. Course content includes the nature of faith and of religious experience as well as the nature of religious language. (3 credits)

PHILOSOPHY C291
Introduction to Special Topics in Philosophy

The topics selected will vary from year to year. (3 credits)

PHILOSOPHY C292
Introduction to Special Topics in Philosophy

A student who has received credit in C291 registers for additional credits under C292. (3 credits)

PHILOSOPHY C310
Ancient Western Philosophy

A study of the principal developments from the Presocratics through Plato and Aristotle up to Plotinus. Emphasis will be placed on the critical reading of selected texts. (6 credits)

PHILOSOPHY C312
Existentialism

A course designed to acquaint the student with the fundamentals of the existentialist movement as a philosophical perspective. Among philosophers considered will be Kierkegaard, Nietzsche, Heidegger, Sartre, Merleau-Ponty, Jaspers, Marcel and Berdyaev. (6 credits)

PHILOSOPHY C313
Contemporary Philosophy

Prerequisite: Six credits in Philosophy or permission of the Department. A study of selected philosophers of the twentieth century. Movements and figures discussed vary from year to year. Such topics as the following will be considered: Positivism, Pragmatism, Marxism, Phenomenology, Existentialism and Philosophical Analysis. (6 credits)

PHILOSOPHY C321
Symbolic Logic

An introduction to modern formal logic, its techniques and applications. The course covers sentential logic, first-order predicate logic with identity, intuitive set theory, relations and functions. (6 credits)

PHILOSOPHY C331
Philosophical Ideas in Literature

Prerequisite: Second year standing or permission of the instructor. A critical examination of philosophical ideas as expressed in various literary works. The subject matter is chosen for its relevance to such themes as the nature of man, the nature of the good life, and the relation of man to society. (6 credits)

PHILOSOPHY C334
Anarchism and Marxism

The contradictory character of Russian cultural and philosophical development is used as a basis for an analysis of the main philosophical differences between Anarchism and Marxism as presented in the works and activities of its main protagonists (Bakunin, Kropotkin, Plekhanov, Lenin). Philosophical relevance of such major Russian writers as Dostoyevsky, Tolstoy and Solzhenitsyn will be shown as well. (3 credits)

PHILOSOPHY C335
Contemporary Marxism

Critical and comparative analysis of different schools and individual thinkers of 20th Century Marxism, in particular those in Russia, Germany and France. These positions will be considered primarily on their philosophical merits. (3 credits)

PHILOSOPHY C338
Philosophical Psychology

A critical examination of the explanation of human behaviour and the self in the light of new developments in philosophy and psychology. Detailed studies of selected problems such as motives, intention, the concept of person, choice, reason, freedom, purpose and action. (3 credits)

PHILOSOPHY C340
Contemporary Theories of Love

Prerequisite: One previous course in Philosophy. A two-semester topical analysis of love and attendant phenomena with special emphasis on their metaphysical, epistemological, psychological, aesthetic, social, theological and linguistic dimensions. The classes will be conducted on a lecture-seminar basis. (6 credits)

PHILOSOPHY C341
Political Philosophy

Prerequisite: 6 credits in Philosophy or the permission of the Department. This course concentrates on the theoretical foundations of communism, fascism, and democracy through the reading and discussion of selected texts. (6 credits)

PHILOSOPHY C342
Political Philosophy

Prerequisite: Second year standing or permission of the Department. Critical analysis of contemporary political-philosophical concepts such as tolerance, violence, separatism, racism and the nationalism of visible minorities. (3 credits)

PHILOSOPHY C343
Legal Philosophy

Prerequisite: 6 credits in Philosophy or the permission of the Department. This course concentrates on definitions of law and the ways of reasoning in Law. It includes discussion of such basic legal issues as responsibility and excuse, person and property, right and obligation, contract and punishment. (6 credits)

PHILOSOPHY C344
Law, Liberty and Human Rights

In this course the student will examine several perspectives from which the problem of the relation between law and morality may be treated. Conflicting concepts of law, morality and the relation of the individual to society will be discussed. The problem of authority will be examined in relation to issues of civil liberties, civil rights and the social basis of legal conflicts. (3 credits)

PHILOSOPHY C345
Philosophy of Social Science

Prerequisite: 6 credits in Philosophy or third year standing in a social science department or permission of the Department. Following the distinction between natural and social sciences, this course will be concerned with philosophies of the social sciences. It will investigate the structure, methodology, and problems of these sciences toward understanding and clarifying how they function as quasi-separable disciplines and how they contribute to a wider understanding of man and his varied social relations. (6 credits)

PHILOSOPHY C346
Philosophy of Social Science

Philosophical examination of the structure and methodology of the social sciences. Special attention to problems of functionalism, teleological explanation and the testing of social theories. (3 credits)

NOTE: This course may be taken for credits in the Science and Human Affairs Programme.

PHILOSOPHY C347
Phenomenology and Psychology

This is an introduction to the fundamentals of Phenomenology through a study of conscious experience, both subjective and intersubjective. Standard psychological models and methods will be examined in order to open up phenomenological alternatives in the fields of aesthetics, literary criticism, religious and moral experience. Phenomenology complements psychological research in these areas. (3 credits)

PHILOSOPHY C348
Philosophy of Culture

Prerequisite: 6 credits in Philosophy or the permission of the Department. This course entails a philosophical critique of contemporary western culture, stressing such issues as identity crisis, the weakening of structures of orthodoxy, meditation and humour in relation to the vita activa, work in relation to labour, and the socio-cultural manifestation of value crisis. (6 credits)

PHILOSOPHY C349
Philosophy of Education

An examination of philosophical principles underlying educational theories and of the problems arising from the practical implementation of those theories. (6 credits)

PHILOSOPHY C350
Philosophy of Communication

This course is concerned with a philosophical analysis of the foundations of communication acts; linguistic and non-linguistic, cognitive and affective. Philosophical sources may include: F. Nietzsche, M. Black, M. Merleau-Ponty and P. Ricoeur. (6 credits)

PHILOSOPHY C351
Philosophy of Religion

Prerequisite: 6 credits in Philosophy or permission of the Department. A critical assessment of modern developments in Philosophy regarding the question whether thinking man can maintain a religious belief in God. (6 credits)

PHILOSOPHY C352
Philosophy of History

Prerequisite: Second or Third year standing in a history programme or permission of the Philosophy Department. An analysis of the nature of historical knowledge and explanation will be followed by a study of classical and contemporary attempts to elucidate the meaning of history. Authors discussed include Augustine, Vico, Kant, Hegel, Marx, Spengler, Popper, Toynbee. (6 credits)

PHILOSOPHY C353
Aesthetics I

Prerequisite: Second year standing or permission of the Department. A philosophical analysis of selected aspects of the aesthetic experience and the logic of appraisal. Specimen topics include: perception in art, symbolic expression, the role of feeling and emotion in aesthetic judgment, objectivity and subjectivity of value judgments, commensurability of values. (3 credits)

PHILOSOPHY C362
Second Year Seminar

Prerequisite: 2nd year standing in a philosophy programme or permission of the Department. Problems in Moral Philosophy. Topics to be announced. This seminar will conduct the students through a series of problems on moral topics. (6 credits)

PHILOSOPHY C410
Mediaeval Philosophy

Prerequisite: Philosophy C310 or the permission of the Department. A study of Western Philosophy from Augustine to the later Scholastics. (6 credits)

PHILOSOPHY C412
Modern Philosophy

Prerequisite: Six credits in Philosophy or permission of the Department. A study of Western Philosophy from Descartes to Hume. (6 credits)

PHILOSOPHY C417
Nineteenth-Century Philosophy

Prerequisite: Six credits in Philosophy or permission of the Department. An examination of some of the main currents of post-Kantian philosophy. Hegel and the post-Hegelians, the romantic reaction, positivism, and pragmatism. (6 credits)

PHILOSOPHY C421
Philosophy of Science

Prerequisite: One course in logic or permission of the Department. A critical examination of problems pertaining to the structure and status of scientific theories and the logic of scientific inference. Such topics as the following will be discussed: explanation, confirmation, verifiability and falsifiability, problems of definition, observational and theoretical terms, models and analogies. (6 credits)
NOTE: This course may be taken for credits in the Science and Human Affairs Programme.

PHILOSOPHY C422
Advanced Topics in Logic

Prerequisite: A 300-level course in Symbolic Logic or permission of the Department. This course is designed to extend the basic knowledge of logic by introducing students to areas such as modal logic, deontic logic, higher-order calculi, logical theory and logical semantics. (3 credits)

PHILOSOPHY C449
Phenomenology

Prerequisite: Twelve credits in Philosophy or permission of the Department. Origins and development of phenomenology from Brentano and Meinong through the different stages of Husserl's writing. Post-Husserlian modifications will be considered briefly. The second term will be devoted to a discussion of the influence of the phenomenological movement on contemporary developments in the social sciences and humanities. Actual topics will be determined by the students' areas of interest and academic qualifications. (6 credits)

PHILOSOPHY C453
Epistemology

Prerequisite: 12 credits in Philosophy or permission of the Department. A study of characteristic problems in epistemology with

particular emphasis on their historical and systematic contexts. The concepts analyzed include fundamental questions in the empirical sciences. (6 credits)

PHILOSOPHY C454
Metaphysics

Prerequisite: 12 credits in Philosophy or permission of the Department. In this course, metaphysics will be treated in two ways; firstly, the problem of being in classical and contemporary ontologies; secondly, the metaphysical suppositions underlying epistemological, moral and social theories. (6 credits)

PHILOSOPHY C455
Aesthetics II

Prerequisite: 6 credits in Philosophy or the permission of the Department. This course will examine central problems in the philosophy of art and sensibility, examining the works of major authors in this area, such as Aristotle, Longinus, Kant, Hegel, Dewey, Santayana. (6 credits)

PHILOSOPHY C456
Recent Ethical Theory

Prerequisite: Six credits in Philosophy or permission of the Department. A critical analysis of leading contemporary ethical theories from Moore to the present. Special attention is given to the naturalistic fallacy, the reducibility of normative statements ethical reasoning and the relation of ethics to psychology and sociology. (6 credits)

PHILOSOPHY C457
Philosophy of God

Prerequisite: 6 credits in Philosophy or permission of the Department. The problem of the natural knowledge of God including readings from Plato, Aristotle, Anselm, Aquinas, Descartes, Hume, Pascal, Kant, Hegel, Feuerbach, Marx, Kierkegaard, Newman, Nietzsche, Sartre, Ayer and Russell. (6 credits)

PHILOSOPHY C460
Honours Seminar in Epistemology and Metaphysics

Prerequisite: Second year standing. Intensive study of major contemporary issues in the theory of knowledge and metaphysics, designed to accommodate honours students in any department. (6 credits)

PHILOSOPHY C463
Third Year Seminar

Prerequisite: 3rd year standing in a philosophy programme or permission of the Department. Themes selected from modern and contemporary Philosophy. Topics and authors to be announced. (6 credits)

PHILOSOPHY C469
Contemporary Analytic Philosophy

Prerequisite: Twelve credits in philosophy or permission of Department. A seminar devoted to the investigation of selected philosophical problems as they arise in the writings of such philosophers as Moore, Russell, Ayer, Carnap, Quine, Wittgenstein, Ryle, Wisdom, Austin and others. (6 credits)

PHILOSOPHY C471
Tutorial in Philosophy

Prerequisite: 18 credits in Philosophy or permission of the Department. If permission for a Tutorial is granted, the Tutorial Director will supervise an intensive reading programme in the student's area of special interest. (3 credits)

PHILOSOPHY C472
Tutorial in Philosophy

Prerequisite: 18 credits in Philosophy or permission of the Department. If permission for a Tutorial is granted, the Tutorial Director will supervise an intensive reading programme in the student's area of special interest. (3 credits)

PHILOSOPHY C480
Author course in Philosophy

Prerequisite: 18 credits in Philosophy or permission of the Department. This course involves the intensive study of the writings of a selected author(s). The author or authors selected will be announced. (6 credits)

PHILOSOPHY C485
Kant

Prerequisite: Twelve credits in Philosophy or permission of the Department. An intensive study of Kant's *Critique of Pure Reason* and related works. (6 credits)

PHILOSOPHY C486
The Study of a Given Thinker

Prerequisite: Six credits in Philosophy or permission of the Department. A detailed study of one or more of the central works of a major philosopher. When it is appropriate, some attention may be devoted to his philosophical development. (3 credits)

PHILOSOPHY C488
The Study of a Given Thinker

Prerequisite: Six credits in Philosophy or permission of the Department. A student who has obtained credit in Philosophy C486 registers for additional credits under Philosophy C488. (3 credits)

PHILOSOPHY C493
Special Topics in Philosophy

Prerequisite: Six credits in Philosophy or permission of the Department. Consideration of a special topic selected from the principal areas of philosophy, e.g. value theory, epistemology, metaphysics, philosophy of mind, philosophy of science, philosophical logic. (6 credits)

PHILOSOPHY C495
Special Topics in Philosophy

Prerequisites: Twelve credits in Philosophy or permission of the Department. A student repeating Philosophy C493 registers for credits under Philosophy C495. (6 credits)

PHILOSOPHY C496
Special Topics in Philosophy

Prerequisite: Six credits in Philosophy or permission of the Department. Consideration of a special topic selected from one of the principal areas of philosophy, e.g. value theory, epistemology, metaphysics, philosophy of mind, philosophy of science, philosophical logic. (3 credits)

PHILOSOPHY C497
Special Topics in Philosophy

Prerequisite: Nine credits in Philosophy or permission of the Department. A student who has received credit in Philosophy C496 registers for additional credits under C497, provided the topics are different. (3 credits)

31.25 Physics

Chairman
M. S. DUBAS, S. J., Associate Professor

Professors
S. N. BAGCHI
S. K. MISRA

Associate Professors
D. E. CHARLTON
C. E. EAPPEN
N. W. EDDY
B. FRANK
C. S. KALMAN
A. L. KIPLING
R. L. KOVACS
J. A. MACKINNON
S. P. MORRIS
J. P. PETOLAS
R. C. SHARMA
J. SHIN
A. E. SMITH

Adjunct Professor
W. R. RAUDORF

Adjunct Associate Professor
P. A. ANNINOS

Adjunct Assistant Professors
S. G. ZENONE

Supervisors of Undergraduate Laboratories
S. MARKIZA
W. SPEARS

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscripts indicate credit value.

72 BSc Honours in Physics

Year I

19 PHYS C232[3], C243[3], C244[3], C253[3], C254[3], C295[2] or both C291[1] and C292[1], C293[1], C294[1]

Year II and III

35 PHYS C335[3], C336[3], C344[3], C352[3], C354[3], C364[3], C392[1], C394[1], C434[3], C435[3], C456[3], C477[3], C478[3]
6 MATH C261
12 Credits to be chosen either with the approval of the Department, or from the following two Patterns — A. Experimental or B. Theoretical.

Pattern A. Experimental

12 credits chosen from PHYS C355[3] or C465[3] or C467[3] or C457[3] or C345[3], C494[1], or C495[1], C295[2] or both C291[1] and C292[1], C296[2], C496[4]

Pattern B. Theoretical

9 credits chosen from PHYS C345[3], C355[3], C465[3], C467[3], C457[3] and 3 credits chosen from PHYS C295[2] or both C291[1] and C292[1]; C494[1] or C495[1]

63 BSc Specialization in Physics

Year I

15 PHYS C232[3], C243[3], C244[3], C253[3], C254[3]
4 Chosen from C291[1], C292[1], C293[1], C294[1], C295[2]

Years I, II and III

20 PHYS C352[3], C335[3], C354[3], C364[3], C392[1], C394[1], C434[3], C477[3]
6 MATH C261
18 Credits to be chosen either with the approval of the Department, or from the following two patterns — A. Experimental or B. Theoretical

Pattern A. Experimental

18 PHYS C355[3], C465[3] or C467[3], C478[3]; C295[2] and C296[2] or C291[1] and C292[1] and C293[1] and C294[1]; C494[1], C496[4]

Pattern B. Theoretical

12 PHYS C336[3], C478[3], C344[3], C456[3]
3 PHYS C435[3] or C465[3] or C467[3]
3 PHYS C345[3] or C457[3]

90 BSc Specialization in Physics/Marketing

24 PHYS C243[3], C244[3], C253[3], C254[3], C291[1], C292[1], C293[1], C294[1], C295[2], C296[2], C364[3], C394[1]
12 To be chosen from PHYS C395[5], C335[3], C336[3], C344[3], C345[3], C352[3], C354[1], C355[1], C392[1], C396[5], C397[5], C434[3], C435[3], C456[3], C457[3], C465[3], C477[3], C478[3], C481[4], C494[1], C495[1]
6 MATH C261[6]
6 QM C243[3], C244[3] or equivalent
3 COMP SC C211[3]
6 ACC C213[3], C340[3]
6 MAN C213[3], C340[3]
6 ECON C209[3], C210[3]
6 MARK C213[3], C350[3]
15 from Department of Marketing

36 BSc Major in Physics

Year I, II and III

15 PHYS C243[3], C253[3], C254[3], C291[1], C293[1], C364[3], C394[1]
9 Chosen from PHYS C232[3], C244[3], C292[1], C294[1], C295[2], C335[3], C336[3], C344[3], C352[3], C354[3], C392[1], C434[3], C435[3], C456[3], C477[3], C478[3]
12 To be chosen with the approval of the Department

NOTE: Students following the major in Physics must register by November 1 of each year with the Department.

24 Minor in Physics

These credits are to be chosen in consultation with the Department.

NOTE: Students following the minor in Physics must register by November 1 of each year with the Department.

32 Certificate in Scientific Measurement (Biology Option)

12 BIOL C220[3], C230[3], C222[3], C223[3]
6 CHEM C311[2], C316[1], C390[2], C399[1]
14 PHYS C295[2], C296[2], C396[5], C397[5]

33 Certificate in Scientific Measurement (Chemistry Option)

19 CHEM C211[6], C310[2], C314[2], C315[1], C319[1], C390[2], C399[1], C490[3], C499[1]
14 PHYS C295[2], C296[2], C396[5], C397[5]

32 Certificate in Scientific Measurement (Physics Option)

18 PHYS C253[3], C254[3], C293[1], C294[1], C295[2], C296[2], C354[3], C355[3]
3 Chosen from PHYS C243[3] or C352[3] or C364[3] and 6 additional credits in Physics.
5 Chosen from PHYS C395[5] or C396[5] or C397[5]
6 MATH C261[6]

NOTES:
(i) It is recommended that Physics students take the following Minor in Mathematics: MATH C261[6], C271[3], C371[3], C311[3], C366[3] and 6 additional credits to be chosen in consultation with the Physics Department.
(ii) In general, the experiments involved in the laboratory courses can be done from week to week at variable times chosen by the student.
(iii) All laboratory courses in Physics with one credit must be completed in one term.

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

PHYSICS C204
Mechanics

Prerequisites: CEGEP Mathematics 103 or equivalent previously or concurrently. Kinematics, Newton's Laws of motion. Statics, dynamics. Conservation of momentum and energy. Ratational motion. Periodic motion. Lectures only (3 credits).
NOTE: Science students may not take this course for Science credits. See Physic C224 for laboratory associated with this course.

PHYSICS C205
Electricity and Magnetism

Prerequisite: Physics C204 or equivalent. Electrical charge and Coulomb's Law. Electrical field and potential. Capacity, Steady state and transient currents. Electromagnetic induction and alternating currents. Lectures only. (3 credits)
NOTE: Science students may not take this course for Science credits. See Physics C225 for laboratory associated with this course.

PHYSICS C206
Waves and Modern Physics

Prerequisite: Physics C204 or equivalent. Simple harmonic motion. Wave progagation. Superposition. Stationary waves. Doppler effect. Interference. Diffraction. Photoelectric effect. Compton effect. Bohr's atom. Radioactivity, fission, fusion. Lectures only (3 credits)
NOTE: Science students may not take this course for Science credits. See Physics C226 for laboratory associated with this course.

PHYSICS C207
Heat and Sound

Prerequisite: 6 credits of Collegial Physics and 6 credits of Collegial calculus or equivalent. Temperature and thermometry, heat effects, measurement and transfer, thermal properties of matter, thermodynamics, first and second laws, kinetic theory, waves, vibrations and accoustical phenomena. Lectures: 3 hours per week. (3 credits)
NOTE: This course is intended for pre-engineering students. Science students may not take this course for credits.

PHYSICS C210
Discoveries in Physics

A non-mathematical course in physics specifically designed for students who have had little or no experience in physics. It traces the fundamental ideas from which modern physics has emerged and attempts to develop insights into the understanding of natural phenomena. Lectures only. (6 credits)
NOTE: Science students may not take this course for credits.

PHYSICS C215
The Mechanics of Visual Representation

An introductory course combining laboratories and lectures illustrating the basic laws which govern and control the mechanism of image reproduction. Relevant topics concerning the interaction of light and materials are discussed and demonstrated. Students perform experiments with light-sensitive materials, the pinhole camera, light intensity and illumination measurement. Human visual response, the gray scale sensitometry, densitometry, the characteristic curve and ASA, DIN, film speeds are examined in depth. This course parallels Chemistry C280, and both are designed to complement the "Dynamics of Visual Representation 1" course (Communication Studies C275). This course is designed for students in Communication Studies. Lab & Lectures: 3 hours per week. (3 credits)
NOTE: Science students may not take this course for credits.

PHYSICS C216
Understanding the Physics of Media

The course covers the evolution of Physics in the discoveries that apply to technology and media. This course is designed for Communication Studies students. *Laboratory:* One 3-hour session per week for two terms. (6 credits)
NOTE: Science students may not take this course for credits.

PHYSICS C217
The Physics of Photo-Reproduction

Prerequisite: Phys C215. A combined laboratory and lecture course designed for students in Communication Studies who have some basic knowledge of physical laws. Ideas introduced in Phys C215 are further developed, covering such topics as exposure measurements and control, and the Standard Association Institute Photographic Exposure Guide. The mechanics of a lens, image formation, f-stops diaphragm openings, the 3-colour composition of light, the colour-temperature scale, and filters, are studied. This course is so designed that the student will gain an intelligent and efficient use of his equipment. Lab and lecture: 3 hours per week. (3 credits)
NOTE: Science students may not take this course for credits.

PHYSICS C219
Physics of Photography

Prerequisite: 6 credits of Collegial physics or the equivalent. This course is intended for students in university science programmes. It includes the following topics: Light, illumination; the photographic process, tone reproduction, the gray scale; sensitometry: the characteristic curve; characteristic curve analysis, gamma, contrast index, film speeds; exposure measurement and control; the exposure guide; previsualization, exposure zones; correct exposure, control of development, Optics: image formation, lenses, standards of definition, depth of focus, depth of field; covering power, perspective; image brightness, exposure, shutters; colour analysis, filters, Lectures and laboratories: 3 hours per week. (3 credits)

PHYSICS C224
Introductory Experimental Mechanics

Prerequisite: Physics C204, previously or concurrently or permission of the Department. A laboratory course covering fundamental experiments in classical mechanics. Experiments will include: Resolution of forces, centrifugal force and conservation of energy, pendulums. Laboratory only, 10 experiments. (1 credit)
NOTE: Science students may not take this course for Science credits.

PHYSICS C225
Introductory Experimental Electricity

Prerequisite: Physics C205, previously or concurrently or permission of the Department. A laboratory course covering fundamental experiments in electricity. Experiments will include Kirchhoff's Law, resistors in series and parallel, oscilloscope, induction, Alternating Current. Laboratory only. 10 experiments. (1 credit)
NOTE: Science students may not take this course for Science credits.

PHYSICS C226
Introductory Experimental Waves and Modern Physics

Prerequisite: Physics C206, previously or concurrently or permission of the Department. A laboratory course covering the fundamental experiments in waves and modern physics. Experiments include spectrometer measurements. Newton's rings, and measurements involving radioactivity. Laboratory only. 10 experiments. (1 credit)
NOTE: Science students may not take this course for Science credits.

PHYSICS C232
Theoretical Physics I

Prerequisite: Math C261 previously or concurrently. Introduction to linear algebra. Ordinary Vector Calculus, matrices, determinants, system of linear equations. Introduction to ordinary differential equations with application to physics. (Linear first order and second order ordinary differential equations. Wronskian, non homogeneous differential equations, power series method, problems from mechanics and electricity). Lectures only (3 credits)

PHYSICS C241
Biomechanics of Human Motion

Prerequisites: Physics C204 or CEGEP Physics 101. The application of elementary laws of mechanics to the understanding of static equilibrium conditions of the human body subjected to external forces — the efficiency of human movement seen from the reference point of physical laws as applied to sports. This course is intended for the physio-therapist, the athlete, and all those interested in understanding body mechanics in the light of inanimate physical laws. Lectures only (3 credits)
NOTE: (Students who have credits for Physics C243 or equivalent may not take this course for credits).

PHYSICS C243
Classical Mechanics I

Prerequisite: Physics C204 or CEGEP Physics 101, Mathematics C261 previously or concurrently. Fundamental concepts, the laws of motion, equilibrium of forces, friction, forces of constraint, centre of mass, work, potential, motion of a particle, motion in resisting media, simple harmonic oscillation, damped oscillations. Lectures only. (3 credits)
NOTE: See Physics C291 for laboratory associated with this course.

PHYSICS C244
Classical Mechanics II

Prerequisite: Physics C243 or equivalent. Central forces, Kepler's Laws, dynamics of a system of particles, mechanics of rigid bodies, Lagrange's equations, Hamilton's equations. Lectures only. (3 credits)
NOTE: See Physics C292 for laboratory associated with this course.

PHYSICS C251
Introductions to Consumer and Commercial Electronics

A course primarily for people who wish to acquire a basic knowledge of some of today's consumer and commercial electronics. The course consists of a series of lectures, laboratory projects and demonstrations. Topics to be treated are: High Fidelity Amplifiers; Program Sources and Reproducers; AM, FM and SSB Transmission; Black and White and Colour Television Reception; Auto-Electronics; Electronic Control Systems; Applications of Linear and Digital Integrated Circuits. Lectures: 2 hours per week. Laboratory: 2 hours per week. (3 credits)
NOTE: Science students may not take this course for credits.

PHYSICS C253
Electricity and Magnetism I

Prerequisite: Physics C205 or CEGEP Physics 201 or equivalent. Mathematics C261 previously or concurrently. Electric charge, Coulomb's Law, Electrostatic forces, electric field, Gauss' Law, electric potential, stored energy, Dielectrics, properties of materials in electric fields. Electric current, conduction in a vacuum and in material media, displacement current, magnetic field of a current, force on a current-carrying wire, magnetic induction, electromotive force, energy stored in a magnetic field. Magnetism in material media, magnetic circuits, Time varying fields. Capacitance, resistance, inductance; circuitry. Lectures only (3 credits).
NOTE: See Physics C293 for laboratory associated with this course.

PHYSICS C254
Electricity and Magnetism II

Prerequisite: Physics C253. The field concept. Maxwell's equations. Boundary conditions. Power and energy. The electrostatic field. Electrostatic potential. The concept of capacitance. Polarization. The concept of local field in matter. The magnetostatic field. The Biot-Savart law. The scalar magnetic potential. Plane waves. Total internal reflection. Lectures only (3 credits).
NOTE: See Physics C294 for laboratory associated with this course.

PHYSICS C255
Electronic Instrumentation

This course is recommended for Science students and others who might be working in scientific research laboratories. This course begins with basic electrical measurements and gradually leads to amplifier circuits of vacuum tubes and transistors, operational amplifiers, oscillators. Servo systems as in strip chart recorders, feed-back control, digital circuits and other devices currently used in research laboratories. Lectures: 3 hours per week. Lab: 2 hours per week. (4 credits).

PHYSICS C270
Introduction to Energy and Environment

This course is designed for students who have little or no background in physics. Topics covered include: Relationship of physics to environment and energy. Concept and definition of work and energy. Interaction of man and inanimate objects with the environment. Heat and chemical energy. Electromagnetic and nuclear energy. Conservation of energy — how it affects everyday life. Sources of energy used on earth. Solar energy. Production of wind power, water power, solar cells from sun's energy, biological uses, biopower. Lectures only. (3 credits)
NOTE: Science students may not take this course for credits.

PHYSICS C273
Energy and Environment

Prerequisite: PHYS C270 or 6 credits in CEGEP Physics or equivalent. Nuclear energy stored in the earth. Geothermal energy. Biological energy stored in the earth. Second law of thermodynamics. Entropy. Food energy. Home heating and cooling. Solar heating. Transportation of man, goods and energy. Recycling materials. Resource conservation and man's ability to change — need for a conservation ethic, need for alternate energy sources, need for public knowledge. Lectures only (3 credits).

PHYSICS C291
Experimental Mechanics I

Prerequisite: Physics C243 previously or concurrently. A laboratory course in mechanics. Experiments includes pendulum, coefficient of restitution, centrigugal force, rotational inertia, inelastic impact. (1 credit)

PHYSICS C292
Experimental Mechanics II

Prerequisite: Physics C291. A laboratory course in mechanics. Experiments include the use of air tracks to study acceleration, collisions, dissipative forces and periodic motion. Other experiments include viscosity and surface tension of liquids. (1 credit).

PHYSICS C293
Experimental Electricity and Magnetism I

Prerequisite: Physics C253 previously or concurrently. A laboratory course in electricity and magnetism. Experiments include motion of electrons in electric and magnetic fields, exponential relaxation, damped oscillations, resonance, nonlinearity, negative resistance. (1 credit).

PHYSICS C294
Experimental Electricity and Magnetism II

Prerequisite: Physics C293. A laboratory course in electricity and magnetism. Experiments include the transistor, amplification and frequency response, transient response and negative feedback, positive feedback and oscillation, periodic structures. (1 credit).

PHYSICS C295
Experimental Electronics I

Prerequisite: Physics C225 or CEGEP Physics 201 or equivalent. A practical laboratory course in electronics. Experiments include resistors in series and parallel, voltmeter, Ohm's Law, Kirchhoff's Current and Voltage Laws, ohmmeter, capacitor, inductor, transformer, rectifiers, voltage doubler, zener diode, power supplies. (2 credits).

PHYSICS C296
Experimental Electronics II

Prerequisite: Physics C295. A practical laboratory course in electronics. Experiments include oscilloscope, biasing of bipolar transistors, transistor amplifiers, voltage and current regulators, field effect transistor, oscillators, operational amplifier circuits, audio amplifier, I-F transformer, limiter, amplitude and frequency modulation. (2 credits).

PHYSICS C302
Space Physics

A highly descriptive course for university science students in the elements of astronomy, astro-physics, artificial satellite motion and space travel. The topics covered are: The earth and its motions; celestial mechanics; the solar system; elements of atomic physics; radio astronomy; the sun, other stars, galaxies and nebulae; artificial satellite motions; communication satellites; rocket motion; space travel, space missions and their findings; the nature of our universe. Lectures: 3 hours per week for two terms. (6 credits).

PHYSICS C324
Selected Topics in Physics

The topics chosen will vary from year to year. The course is designed to provide students with the opportunity of extending their studies beyond subjects already included in the curriculum. Open to all students with permission of the Department. (3 credits).

PHYSICS C325
Selected Topics in Physics

A student who has received credit for PHYS C324 may register for PHYS C325 providing the subject matter is different. (3 credits)

PHYSICS C335
Theoretical Physics II

Prerequisite: Physics C232 or equivalent. Linear Algebra: Properties of linear maps, Linear coordinate transformations, eigenvalue problems, Vector space of functions, Sturm-Liouville problem, Fourier Series and applications. Lectures only. (3 credits).

PHYSICS C336
Theoretical Physics III

Prerequisite: Physics C335 or equivalent. Classification and derivation of partial differential equations in physics. Separation of variables technique. The Fourier method for solving partial differential equations. Special Functions. Application to physical problems arising from electrostatics, heat conduction, wave propagation etc. Lectures only. (3 credits).

PHYSICS C344
Advanced Classical Mechanics

Prerequisite: Physics C232 and C244 or equivalent. Lagrangian and Hamiltonian dynamics, collision between particles, motion of rigid bodies, Hamilton-Jacobi theory, small oscillations. Lectures only. (3 credits).

PHYSICS C345
Special Relativity

Prerequisite: Physics C244, C254. Historical introduction, Einstein and relativity, application of the Lorentz transformation, four-vectors, the Lorentz invariance of physical theories. Lectures only. (3 credits).

PHYSICS C352
Optics

Prerequisite: PHYS 205 or CEGEP equivalent. Geometrical optics: General treatment of optical systems. Wave optics: review of simple harmonic motion, wave equation, superposition of waves, electromagnetic waves, scattering, polarization, interference-coherent sources, interference-uniformly extended sources, diffraction, waves in a dispersive medium, lasers. Lecturers only. (3 credits).

PHYSICS C354
Electronics I

Prerequisite: Physics C205 or CEGEP Physics 201 or equivalent. Semi-conductor physics: p-n junction, bipolar transistor, field effect transistor, circuit theory, diode applications, bipolar transistor: h-parameters, small signal amplifiers. Lectures only. (3 credits). *See Physics C295 and C296 for associated laboratory courses.*

PHYSICS C355
Electronics II

Prerequisite: Physics C354. Biasing of Transistors; Feedback Analysis, common circuits involving operational amplifiers; large signal amplifiers; digital circuits: gates, flip flops, logic functions. Lectures only. (3 credits).

PHYSICS C364
Atomic Physics

Prerequisite: PHYS C205 or the CEGEP equivalent. Special relativity. Wave-particle duality. The Rutherford atom, the Bohr-Sommerfeld atom. Origin of quantum theory. Schroedinger's equation. Electrons and ions. Electromagnetic radiation. Atomic structure. Lectures only. (3 credits).
NOTE: This course should not be taken before the second year of university studies. See Physics C394 for laboratory associated with this course.

PHYSICS C383
Medical Physics

Prerequisite: CEGEP Pre-Science or equivalent. This course provides a background in the physics needed to understand instrumentation used in the fields of biology and medicine. Topics are taken from the fields of mechanics, properties of materials, thermodynamics, optics, electromagnetic theory and radiation physics. Lectures only. (3 credits)

PHYSICS C392
Experimental Optics

Prerequisite: Physics C352, previously or concurrently. An experimental course in optics. Experiments include diffraction, optical instruments, resonance and various experiments using lasers. Laboratory only, 10 experiments. (1 credit) *NOTE A/See § 200.1*

PHYSICS C394
Experimental Atomic Physics I

Prerequisites: Physics C364, previously or concurrently, Physics C226 or CEGEP Physics 301 or equivalent or permission of the dept. An experimental course in atomic physics. Experiments include the Frank-Hertz experiment, the Zeeman effect, Mass spectrometer and some X-ray work. Laboratory only, 10 experiments. (1 credit) *NOTE A/See § 200.1*

PHYSICS C395
Communication Media Electronics

Prerequisite: Physics C296 or equivalent. Distortion, Noise, i.f. transformers, converters, power supplies, superheterodyne circuits, video amplifiers and detectors, VHF and UHF tuning, automatic gain control, FM and FM detectors, synchronization circuits, sweep circuits, automatic frequency and phase control, color demodulation, burst gate amplifiers, chromobandpass amplifiers, static convergence, dynamic convergence, high voltage generators, Techniques of troubleshooting electronic circuits. Laboratory only. (5 credits).

PHYSICS C396
Computer Electronics

Prerequisite: PHYS C296 or equivalent. Diode clipping circuits, transistor as a switch, multivibrator circuits, logic circuits. Study and troubleshooting of integrated circuit

logic gates, J-K flip flops, analogue to digital and digital to analogue converters, frequency divider circuits, digital multiplexers and demultiplexers, pulse distributor logic gates. Study and implementation of basic logic functions and Boolean expressions to program a small digital computer. Laboratory only. (5 credits)

PHYSICS C397
Experimental Medical Electronics

Prerequisite: Physics C296 or equivalent. A laboratory course on the maintenance and use of medical instruments including ECG monitor, electro-cardiograph, cardiotachometer, bloodpressure recorder, respiration rate recorder and clinical thermometer. The component parts of the instruments are studied first and then the instruments are constructed and operated. Laboratory only. (5 credits)

PHYSICS C428
Advanced Topics in Physics

The topics chosen will vary from year to year. The course is designed to provide students with the opportunity of extending their studies beyond subjects already included in the curriculum. Open to all students with permission of the Department. (3 credits)

PHYSICS C429
Advanced Topics in Physics

A student repeating Physics C428, provided that the content is different, registers for credits under Physics C429. (3 credits)

PHYSICS C434
Thermodynamics

Prerequisite: Physics C204 or CEGEP Physics 101 or equivalent. Temperature, simple thermodynamic systems, work, heat and first law, ideal gas, Van der Waal's gas, heat engines, reversible and irreversible processes, entropy, second law, thermodynamics potentials, kinetic theory, Maxwell distribution, mean free path. Lectures only. (3 credits).
NOTE: This course should not be taken before the second year of university studies. See Physics C494 for laboratory associated with this course.

PHYSICS C435
Statistical Physics

Prerequisite: Physics C364 and Physics C434. Basic probability concepts, statistical description of systems of particles, thermal interactions, microscopic theory and macroscopic measurements, temperature and entropy, M-B, F-D, B-E statistics. Canonical distribution in the classical approximation, general thermodynamics interaction. Lectures only. (3 credits).

PHYSICS C436
Theoretical Physics IV

Prerequisite: Physics C232. Theory of Complex variables leading to Residue theory with applications to Physics. Tensor calculus: tensor algebra; line element, covarient differentiation; applications. Lectures only. (3 credits).

PHYSICS C456
Electromagnetic Theory I

Prerequisite: Physics C254, C336. Derivation of the laws of electrostatics and magnetostatics from the basic experimental laws; method of images; solutions of Laplace's and Poisson's equations for electrostatic problems, magnetism, Maxwell's equations. Lectures only. (3 credits).

PHYSICS C457
Electromagnetic Theory II

Prerequisite: Physics C456. Wave Solution of Maxwell's equations in various media. Classical model of a dielectric. Helmholtz equation and wave equation by Green's functions. Multipole fields. Interaction of charged particles. Radiation by moving charges. Abraham-Lorentz theory. (3 credits).

PHYSICS C465
Nuclear Physics

Prerequisite: Physics C364. Discussion of nuclear properties. The deuteron nuclear structure and models. Scattering. Nuclear transitions, disintegrations and reactions. Radioactivity and decay laws. Passage of radiation through matter, shielding, radiation dosage. Detection and acceleration of particles. Neutrons. Nuclear reactors. Environmental concerns. Lectures only. (3 credits)
NOTE: See Physics C495 for laboratory associated with this course.

PHYSICS C467
Solid State Physics

Prerequisite: Physics C477. Crystal structure of solids. Lattice dynamics. Specific heat. Electrons in metals. Free electron Theory of conduction. Band Theory. Semi-conductors. Dielectric and magnetic properties of solids. Lectures only. (3 credits).

PHYSICS C477
Quantum Mechanics I

Prerequisite: Physics C364 and Physics C232 or Physics C244. State functions and their interpretation, wave packet, linear momentum, motion of a free particle, Schroedinger's equation, stationary state, solution, potential wells. Lectures only. (3 credits).

PHYSICS C478
Quantum Mechanics II

Prerequisite: Physics C477. The harmonic oscillator, creation operators, approximation methods of solving Schroedinger's equation, perturbation theory, system of particles, motion in three dimensions, spin, angular momentum, hydrogen atom. Lectures only. (3 credits).

PHYSICS C481
Biophysics I

Prerequisite: University II standing in science or permission of the Department. Biophysical principles of size and shape of organisms, bioenergetics, physiological fluid flows, and mathematical models of biological processes. Lectures only. (3 credits).

PHYSICS C482
Biophysics II

Prerequisite: Physics C481 or permission of the Department. Biophysical and physiological systems analysis, circulatory regulation, muscles, and neural network. Lectures only. (3 credits).

PHYSICS C494
Experimental Thermodynamics I

Prerequisite: Physics C434 previously or concurrently. A laboratory course in thermodynamics. Experiments include Clement and Desormes experiment, vaporization, specific heats, liquid nitrogen boiling. Laboratory only. 10 experiments. (1 credit).

PHYSICS C495
Experimental Nuclear Physics I

Prerequisite: Physics C394 and C465 previously or concurrently. A laboratory course in nuclear physics. Experiments include gamma and beta ray spectroscopy, nuclear magnetic resonance, absolute counting, half-life determination, nuclear activities. Laboratory only. 10 experiments. (1 credit).

PHYSICS C496
Methods of Experimental Physics

Prerequisite: Physics C296 or equivalent, and C394 or equivalent or permission of the Department. Experiments include fundamentals of digital logic and applications of operational amplifiers, solid state and nuclear physics. Students are encouraged to propose new experiments and will have the opportunity to design and build equipment. Laboratory only. (4 credits).

PHYSICS C497
Experimental Atomic Physics II

Prerequisite: Physics C364 and C394. An experimental approach to some basic methods of radiation detection and measurement, including alpha, beta, and gamma ray spectroscopy. Other experiments present Hall Effect, Microwaves and Vacuum Techniques. Laboratory only. (2 credits).

31.26 Political Science

Chairman
E. M. PRICE, *Associate Professor*

Professor
H. P. HABIB

Associate Professors
H. ANGELL
P. ARNOPOULOS
R. C. COYTE
M. DANIS
K. HERRMANN
H. HUTTER
L. LASZLO
J. W. MOORE
K. S. OH
H. SHULMAN
L. P. SINGH
B. WILLIAMS

Assistant Professors
A. B. GOLLNER
F. STARK

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Honours in Political Science

18 POLI C200^{6}, C270^{6} or C271^{3} and C273^{3}, C372^{6}
42 Chosen from at least three of the five Groups in Political Science with a minimum of 18 credits taken at the 400 level, 12 of which must be seminar courses.*

**6 credits may be taken in a cognate discipline with the permission of the Department.*

60 BA Honours in Political Science (Concentration in a Special Field of Study)

18 POLI C200^{6}, C270^{6} or C271^{3} and C273^{3}, C372^{6}
18 Chosen from at least three of the five Groups in Political Science
24 Chosen from one of the five Groups in Political Science with a minimum of 18 credits taken at the 400 level, 12 of which must be seminar courses.*

**6 credits may be taken in a cognate discipline with the permission of the Department.*

66 BA Joint Honours in Political Sociology

18 SOCI C200^{6}, C300^{6}, C435^{6}
18 POLI C200^{6}, C270^{6}, C470^{6}
12 Chosen from SOCI C400^{6}, C405^{6}, POLI C370^{6}, C372^{6}
12 Chosen from SOCI C280^{6}, C320^{6}, C330^{6}, C335^{6}, C353^{3}, C354^{3}, POLI C230^{6}, C336^{6}, C351^{6}, C353^{6}, C360^{6}, C430^{6}
6 Chosen from SOCI C409^{6}*, POLI C438^{6}

**With the approval of the Honours Adviser, the prerequisites for SOCI C409 may be modified for students in this programme.*

60 Specialization in Political Science

18 POLI C200^{6}, C270^{6} or C271^{3} and C273^{3}, C372^{6}
42 Chosen from at least three of the five Groups in Political Science. A minimum of 24 credits must be taken at the 300 level. A minimum of 12 credits must be taken at the 400 level.*

**6 credits may be taken in a cognate discipline with the permission of the Department.*

42 BA Major in Political Science

6 POLI C200^{6}
36 Chosen from at least three of the five Groups in Political Science. A minimum of 24 credits must be taken at the 300 or 400 level.

42 BA Major in Political Science (Concentration in a Special Field)

6 POLI C200^{6}
18 Chosen from one of the five Groups in Political Science. A minimum of 18 credits must be at the 300 or 400 level.
18 Chosen from the other four Groups in Political Science. A minimum of 6 credits must be at the 300 or 400 level.

24 Minor in Political Science

6 POLI C200^{6}
18 Chosen from any of the five Groups in Political Science. A minimum of 12 credits must be taken at the 300 or level.

The Department of Political Science offers the following programmes of study: a General Honours; an Honours with concentration in a special field of study; a Specialization; a General Major; a Major with concentration in a Special field of study; and a Minor.

Additionally, in cooperation with the Department of Sociology and Anthropology the Department offers a Joint Honours programme in Political Sociology.

In order to maintain Honours status students must obtain approval for their programmes from the Honours Adviser each year prior to registration. In the second year of the Honours programme each student will choose a faculty adviser who will advise the student on course selection and seminar research essays.

Students seeking admission to the Honours programme on or after June 1, 1977, will be bound by the Honours requirements outlined in Section 16.2.4 of this calendar.

Students who already had Honours status by June 1, 1977, will continue to be governed by the requirements which applied at the date of their admission to the Honours programme.

The Specialization is designed for students who wish to acquire a broad knowledge of the discipline without the additional requirements of the Honours programme.

The programme of courses leading to a Minor in Political Science consists of 24 credits in the Department. The Minor is designed to provide an opportunity for students to make a combination with a Specialization, a Major or Honours in another discipline. A student's Minor will be arranged in consultation with the Department of Political Science so that it relates to courses in the Major area of study.

Explanation of Course Numbers.

1. Courses in the 200 and 300 range are open to all Political Science students and students in other departments.
2. Courses in the 400 range are open to all students in Political Science who are in their second and third year. Students in other departments may take these courses with the permission of the Political Science Department.

Group I: International

POLITICAL SCIENCE C210
International Relations

POLITICAL SCIENCE C311
International Public Law

POLITICAL SCIENCE C313
International Law and Power Relations

POLITICAL SCIENCE C315
International Organization

POLITICAL SCIENCE C317
Regional Organizations

POLITICAL SCIENCE C321
The Middle East in World Politics

POLITICAL SCIENCE C323
Eastern Europe in World Politics

POLITICAL SCIENCE C410
Seminar on Modern World Society

POLITICAL SCIENCE C411
Diplomacy

POLITICAL SCIENCE C413
Foreign Policy

POLITICAL SCIENCE C415
International Justice

POLITICAL SCIENCE C417
Peace Studies

POLITICAL SCIENCE C419
Strategic Studies

POLITICAL SCIENCE C421
Transnational Politics

POLITICAL SCIENCE C451
Canadian External Affairs

Group II: Comparative Politics

POLITICAL SCIENCE C230
Comparative Politics of Western Europe

POLITICAL SCIENCE C236
The Politics of Developing Areas

POLITICAL SCIENCE C330
American Government and Politics

POLITICAL SCIENCE C331
British Government and Politics

POLITICAL SCIENCE C332
African Government and Politics

POLITICAL SCIENCE C333
The Government and Politics of the Soviet Union

POLITICAL SCIENCE C334
Women and the Law

POLITICAL SCIENCE C335
Contemporary Politics of China

POLITICAL SCIENCE C336
Urban Politics

POLITICAL SCIENCE C337
Contemporary Politics of Japan

POLITICAL SCIENCE C339
Mid-East Political Systems

POLITICAL SCIENCE C430
Comparative Political Parties

POLITICAL SCIENCE C432
Seminar on Western Political Systems

POLITICAL SCIENCE C434
Seminar on Asian Political Systems

POLITICAL SCIENCE C436
Seminar on Politics of East Europe

POLITICAL SCIENCE C438
Honours Tutorial

advanced topics 490 – 497 may be included in any one group as per Dr. Price-Dec. 11/80

Group III: Canadian

POLITICAL SCIENCE C250
Canadian Government and Politics

POLITICAL SCIENCE C334
Women and the Law

POLITICAL SCIENCE C336
Urban Politics

POLITICAL SCIENCE C350
Canadian Public Law

POLITICAL SCIENCE C351
Canadian Federalism

POLITICAL SCIENCE C352
Canadian Parties, Interest Groups and Public Opinion

POLITICAL SCIENCE C353
Quebec Politics

POLITICAL SCIENCE C355
Nationalism: The Canadian Experience

POLITICAL SCIENCE C363
Issues in Canadian Public Policy

POLITICAL SCIENCE C365
Canadian Public Administration

POLITICAL SCIENCE C367
Quebec Public Administration

POLITICAL SCIENCE C450
Seminar on Quebec Government and Politics

POLITICAL SCIENCE C451
Canadian External Affairs

POLITICAL SCIENCE C452
Seminar on Canadian Federal, Provincial and Municipal Government

POLITICAL SCIENCE C453
The Provinces in Canadian Federalism

POLITICAL SCIENCE C454
Seminar on Legislative, Executive and Judicial Decision-Making

POLITICAL SCIENCE C471
Political Thought and Ideology in Canada

Group IV: Public Policy and Administration

POLITICAL SCIENCE C360
Comparative Public Administration

POLITICAL SCIENCE C361
The Politics of Public Choice

POLITICAL SCIENCE C363
Issues in Canadian Public Policy

POLITICAL SCIENCE C365
Canadian Public Administration

POLITICAL SCIENCE C367
Quebec Public Administration

POLITICAL SCIENCE C413
Foreign Policy

POLITICAL SCIENCE C454
Seminar on Legislative, Executive and Judicial Decision-Making

POLITICAL SCIENCE C460
Seminar on Government and Economic Policy

POLITICAL SCIENCE C462
Seminar on Comparative Policy Problems of Advanced Industrial Societies

Group V: Theory

POLITICAL SCIENCE C270
History of Political Theory

POLITICAL SCIENCE C271
Ancient Greek Political Philosophy

POLITICAL SCIENCE C273
Roman, Mediaeval and Renaissance Political Philosophy

POLITICAL SCIENCE C370
Problems and concepts in Political Theory

POLITICAL SCIENCE C371
Early Modern Political Philosophy

POLITICAL SCIENCE C372
Methodology of Political Science

POLITICAL SCIENCE C373
Late Modern Political Philosophy

POLITICAL SCIENCE C375
Nationalism: Origins, Operation, Significance

POLITICAL SCIENCE C377
Catholic Social and Political Thought

POLITICAL SCIENCE C470
Contemporary Political Thought

POLITICAL SCIENCE C471
Political Thought and Ideology in Canada

POLITICAL SCIENCE C472
Seminar on Communications and Politics

POLITICAL SCIENCE C473
Seminar on Political Theory and Historical Understanding

POLITICAL SCIENCE C474
Seminar on Political Theory and Scientific Method

POLITICAL SCIENCE C475
Marxism

Due to the renumbering of courses in the Department, students should consult Section 200 for a list of equivalent courses.

POLITICAL SCIENCE C200
Introduction to Political Science

A description of the features universal to the governing processes of societies and the nature and consequences of the major variations in these processes. The course combines a theoretical and conceptual framework with a study of selected political systems and countries. It is designed to act both as an introduction to the discipline for those students who plan to study further and to serve also those students who require a systematic examination of the field in a single course. (6 credits)
NOTE: This course may be taken for credits in the Urban Studies programme.

POLITICAL SCIENCE C210
International Relations

An introductory course in world affairs. Among the topics covered will be: the historical evolution of the international system; definitions of basic concepts; types of conflict and cooperation among states; environmental, economic, socio-cultural and ideological factors; critical problems, current issues and major trends in world politics. (6 credits)

POLITICAL SCIENCE C230
Comparative Politics of Western Europe

A comparative study of a selected number of Western European countries. Special emphasis will be given to the dynamics of the political process. Most of the illustrative con-

tent will be based on Great Britain, France and the Federal Republic of Germany. (6 credits)

POLITICAL SCIENCE C236
The Politics of Developing Areas

A study of the politics and structures of government in developing areas such as Asia, Africa or Latin America against the background of social and economic change since World War II. The specific area which will be studied will vary from year to year depending on the interests of the instructor. (6 credits)
NOTE: This course may be taken for credits in the Asian Studies Programme.

POLITICAL SCIENCE C250
Canadian Government and Politics

An institutional and functional analysis of the Canadian federal system. The course centers upon the major problems of concern in the Canadian political process and considers the formal and informal institutions within which these problems might be solved. The political system is studied within the context of federalism; the electoral system; political parties; interest groups; public opinion and the Canadian political culture. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

POLITICAL SCIENCE C270
History of Political Theory

A general survey of the writings of the Great thinkers in the western political tradition from the classical period to the middle of the 19th Century. This course provides a general introduction to the history of political thought. (6 credits)
(Students who have taken POLI C271 or C273 will not be able to take this course for credit).

POLITICAL SCIENCE C271
Ancient Greek Political Philosophy

A study of the political thought of the ancient Greeks. The principal texts to be studied are *The Republic* of Plato and *The Politics* of Aristotle. This course is particularly recommended for students in the political theory area of concentration.
(Students who have taken POLI C270 may not take this course for credit. (3 credits)

POLITICAL SCIENCE C273
Roman, Mediaeval and Renaissance Political Philosophy

A study of the political thought of Rome, the middle ages and the Renaissance, with special emphasis upon the political writings of Cicero, St. Augustine, St. Thomas Aquinas and Machiavelli. This course is recommended for students in the political theory area of concentration. Students who have taken POLI C270 may not take this course for credit. (3 credits)

POLITICAL SCIENCE C311
International Public Law

An introductory course in legal inter-state relations. Among the topics covered will be: the sources and development of law; relationships with municipal law; meaning of legal concepts; rights and duties of states; sovereignty and territoriality; state recognition and succession. (3 credits)

POLITICAL SCIENCE C313
International Law and Power Relations

A general course on the role of law in world politics. Among the topics covered will be: the theory and reality of law; international transactions and diplomatic law; customary and treaty law; judicial settlement of disputes; the laws of war and neutrality. (3 credits)

POLITICAL SCIENCE C315
International Organizations

An introductory course in intergovernmental institutions. Among the topics covered will be: the development of international public unions; the League of Nations and the United Nations; the structure and function of international administration; specialized agencies and world order. (3 credits)

POLITICAL SCIENCE C317
Regional Organizations

A general course in international structural integration. Among the topics covered will be: the dynamics of socio-political unification; theories of regionalism; supra-national communities and common markets. Emphasis will be given to institutions such as the EEC, COMECON, OAS, OAU, LAFTA and ASEAN. (3 credits)

POLITICAL SCIENCE C321
The Middle East in World Politics

An area study of the Mid-Eastern states in international affairs. Among the topics covered will be: the Islamic Heritage; Arab nationalism and Zionism; the Arab-Israeli conflict and the USA-USSR power struggle. (3 credits)

POLITICAL SCIENCE C323
Eastern Europe in World Politics

The course will deal with the role of the Soviet Union and its East European allies in international affairs. Among the topics covered will be: the ideological foundations and historical development of socialist foreign policy; problems of domestic security, defense, international trade, foreign aid, and expansion of influence; the East European alliance system, CEMA and the WTO (Warsaw Pact). (3 credits)

POLITICAL SCIENCE C330
American Government and Politics

A study of American politics which will deal not only with formal political institutions such as the legislature, the executive and the judiciary, but also with the processes and problems of government: public opinion, political parties, pressure groups, health and welfare, foreign policy and racial problems. (6 credits)

POLITICAL SCIENCE C331
British Government and Politics

Government and politics in Britain with particular emphasis on political parties and pressure groups, the changing role of the legislature and executive, and the Public Corporations. The issues of current constitutional interest will be discussed such as the office of Prime Minister and Parliamentary sovereignty. (3 credits)

POLITICAL SCIENCE C332
African Government and Politics

The government and politics of African states south of the Sahara with reference to traditional political systems, colonial policies, nationalism, and the problem of nation building. (6 credits)

POLITICAL SCIENCE C333
The Government and Politics of the Soviet Union

A study of the government and politics of the Soviet Union. Discussion of the basic theories of Communism and the evolution of the Soviet System. (3 credits)

POLITICAL SCIENCE C334
Women and the Law

Prerequisite: Political Science C200 or equivalent. An historical comparative study of the status of women as seen in different legal systems. The course will deal with women in relation to private, family and public law. The framework will be primarily legal, but will also include a consideration of the social and political implications of women's legal status. Special attention to be directed to Quebec and Canadian law. (6 credits)

POLITICAL SCIENCE C335
Contemporary Politics of China

An analysis of the political development and change of China since the triumph of Communism in China with special emphasis on the role of the CCP, mass mobilization and prospect, and influence on Asia and world politics. (3 credits)

POLITICAL SCIENCE C336
Urban Politics

Prerequisite: Political Science C200 or C250. A course in the problems and prospects in urban politics with special emphasis on the processes of the local community. This course, although dealing primarily with urban politics in Canada, will also go beyond national boundaries for its comparative treatment. (6 credits)

POLITICAL SCIENCE C337
Contemporary Politcs of Japan

An analysis of the political change and development of Japan since the end of World War II with special emphasis on the reorientation of Japan, characteristics of Japanese modernization and of post-industrial politics, problems of national post-industrial politics, problems of national security and constitutional pacifism, and influence on Asia and world politics. (3 credits)

POLITICAL SCIENCE C339
Mid-East Political Systems

A comparative study of selected Mid-East Governments (Egypt, Iraq, Israel, Jordan, Lebanon, Libya, Saudi Arabia, Syria, Turkey and Yemen). (3 credits)

POLITICAL SCIENCE C350
Canadian Public Law

This course is an introduction to Canadian Public Law emphasizing such areas as constitutional law, criminal law, administrative law, applications for bail, and consumer protection. In addition, the course will involve a study of the organization and functioning of the court system. (6 credits)

POLITICAL SCIENCE C351
Canadian Federalism

Prerequisite: Political Science C250. A critical and analytical study of the theory of federal government and its application to the nature, principles and techniques of federalism in Canada. The reaction of the Canadian federal system to the demands of cultural dualism and regional pressures. Some attention will also be given to the problems of provincial governments and Federal-Provincial relations. (3 credits)

POLITICAL SCIENCE C352
Canadian Parties, Interest Groups and Public Opinion

Prerequisite: Political Science C250. An examination of the functions of parties and interest groups with an emphasis on political socialization, ideology, political recruitment, and leadership selection. Attention will also be given to the formulation and expression of public opinion and its impact on public policy. (6 credits)

POLITICAL SCIENCE C353
Quebec Politics

Prerequisite: Political Science C250. A study of the changing party structure and political issues in Quebec and their relationship to constitutional, cultural and economic factors. (3 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

POLITICAL SCIENCE C355
Nationalism: The Canadian Experience

Prerequisite: Political Science C250 or permission of the Department. Examines the origins and development of nationalism and regionalism in Canada with particular attention centered upon the interaction between French-Canadian and English-Canadian nationalist sentiments. Considers the similarities and divergencies of nationalist and regionalist sentiment in Canada with those of European nationalism, and evaluates their significance with regard to the development of the Canadian federation and its capacity to confront the realities and demands of the modern technological environment. (3 credits)

POLITICAL SCIENCE C360
Comparative Public Administration

Concerned with the theories and maxims as well as with the development of public administration. The student is introduced to issues such as the organization of governmental departments, budget policy, decision-making in government administration, personnel selection and training methods as well as the application of efficiency ratings. There is, throughout, strong emphasis on attitues and differences pertinent to the civil service in a selected group of countries. (6 credits)

POLITICAL SCIENCE C361
The Politics of Public Choice

The course will examine the latest theoretical literature on the problems of social choice in domestic policy making. It will assess the influence of social, cultural, ideological economic and political factors on the formation of public policies and will analyze the impact of citizen participation at both elite and mass levels. (3 credits)

POLITICAL SCIENCE C363
Issues in Canadian Public Policy

The course will examine alternative public policies in selected areas at the federal, provincial and municipal levels in Canada, leading toward the development of individual research projects. Policies analyzed will vary from year to year and will include such areas as: social welfare policy, culture, education and language policy, environmental protection, energy conservation, urban renewal, economic policy. (3 credits)

POLITICAL SCIENCE C365
Canadian Public Administration

Prerequisite: Political Science C250 or permission of the Department. This course will examine the organization and composition of the federal bureaucracy, the role of the bureaucracy in the making and execution of public policy, patterns of recruitment, and the mechanisms of accountability and control over the behaviour of these bodies. (3 credits)

POLITICAL SCIENCE C367
Quebec Public Administration

Prerequisite: Political Science C250 or permission of the Department. This course will examine the organization and composition of the provincial bureaucracy, the role of Quebec civil servants in the making and execution of public policy, patterns of recruitment, and the mechanisms of accountability and control over the behaviour of these bodies. (3 credits)

POLITICAL SCIENCE C370
Problems and Concepts in Political Theory

Prerequisite: Political Science C270 or C271 and C273. A course in political theory which examines central concepts in political thinking such as liberty, equality and power. The content of the course will include basic methodology and terminology to the extent that the thematic orientation in any given year requires its inclusion. (6 credits)

POLITICAL SCIENCE C371
Early Modern Political Philosophy

The Reformation and rise of modern individualism. The principal political thinkers studied in this period will be Luther, Calvin, Bellarmine, Bodin, Hobbes, Harrington, Locke. (3 credits)

POLITICAL SCIENCE C372
Methodology of Political Science

A study of the contemporary subject matter and methods of political science. The course deals with: 1) fundamental concepts, principles, institutions, and processes of politics; 2) methods and techniques of the study of Politics including an introduction to statistical analysis; 3) present approaches such as functionalism, behaviouralism, and practical laboratory periods. (6 credits)

POLITICAL SCIENCE C373
Late Modern Political Philosophy

The Enlightenment and its critics and the political thought of the early industrial period. The most important thinkers to be studied in this period are: de Montesquieu, Hume, Rousseau, Burke, J. S. Mill and Marx. (3 credits)

POLITICAL SCIENCE C375
Nationalism: Origins, Operation, Significance

Examines the foundations of nationalist ideology developed originally in the early 19th Century as a purely European phenomenon. Considers specific nationalist ideologies — European, African, Asian, etc. . . . with regard to their modality of operation and their significance in relation to a society's capacity to evolve and confront the demands, both internal and external, of the contemporary environment. (3 credits)

POLITICAL SCIENCE C377
Catholic Social and Political Thought

An inquiry into contemporary Catholic social and political thought as stated in papal encyclicals; a broad survey of Catholic political activity as manifested in the European and Latin American Christian Socialist and Christian Democratic movements and parties. (3 credits)

POLITICAL SCIENCE C391
Selected Topics in Political Science

Prerequisite: Permission of the Department. The topic will vary with the special interest of the instructor offering the course in any given year. (3 credits)

POLITICAL SCIENCE C393
Selected Topics in Political Science

Prerequisite: Permission of the Department. The selected topic will vary with the special interest of the instructor offering the course in any given year. (3 credits)

POLITICAL SCIENCE C410
Seminar on Modern World Society

Prerequisite: Permission of the Department. An advanced study of various conceptions of the modern world society. Among the topics considered will be: the impact of technology on modern society and the problems it poses for international world order; the various theoretical models (i.e. federalist, functionalist, universal culturalist) proposed to solve these problems and promote international order. (6 credits)

POLITICAL SCIENCE C411
Diplomacy

Prerequisite: At least 3 credits in International Affairs. A specialized course on the art of statesmanship and the practice of diplomacy. Among the topics covered will be: diplomatic intelligence and communication; protocol, rhetoric and propaganda; negotiating techniques and treaty-making; informal consultations and conference diplomacy; conflict resolution and conciliation of national interests. (3 credits)
NOTE: This course may be taken for credits in the Asian Studies Programme.

POLITICAL SCIENCE C413
Foreign Policy

Prerequisite: At least 3 credits in International Affairs. A specialized course analysing the foreign policy-making process. Among the topics covered will be: environmental influences; socio-economic factors; psychological images and ideologies; the national interest and foreign constraints; decision-making criteria; policy evaluation and feedback. (3 credits)
NOTE: This course may be taken for credits in the Asian Studies Programme.

POLITICAL SCIENCE C415
International Justice

Prerequisite: At least 3 credits in International Affairs. A specialized course on the role of morality in world affairs. Among the topics covered will be: Human Rights and collective values; individual obligation and state responsibility; relativistic ethics and universal standards; natural law and equity; international stratification and inequality; international courts of justice and the legitimation of world order. (3 credits)

POLITICAL SCIENCE C417
Peace Studies

Prerequisite: At least 3 credits in International Affairs. A specialized course on the theory and practice of world peace. Among the topics covered will be: the causes of war and the conditions of peace; human aggression and the peace movement; structural violence and revolution; nationalism and cosmopolitanism; disarmament and peacekeeping. (3 credits)

POLITICAL SCIENCE C419
Strategic Studies

Prerequisite: At least 3 credits in International Affairs. A specialized course in power politics and defence policy. Among the topics covered will be: balance of power and collective security; military alliances and spheres of influence; the East-West cold war and detente; theories of geopolitics and imperialism; nuclear weapons and the arms race; deterrence and game theory. (3 credits)

POLITICAL SCIENCE C421
Transnational Politics

Prerequisite: At least 3 credits in International Affairs. A specialized course in international socio-economic relations. Among the topics covered will be: the North-South confrontation and the New International Economic Order; Multi-national Corporations and Non-Governmental Organizations; the Third World and the politics of development; economic interdependence and self-reliance; political influence of trade, aid and investment; natural resources and the limits to growth. (3 credits)

POLITICAL SCIENCE C430
Comparative Political Parties

A study of the history, ideology and organization of a selected number of countries representing different political systems. (6 credits)

POLITICAL SCIENCE C432
Seminar on Western Political Systems

A seminar on the political systems of western Europe and North America. (6 credits)

POLITICAL SCIENCE C434
Seminar on Asian Political Systems

A discussion of selected themes — nationalism, communism, process of modernization and/or Asian political institutions, political forces and foreign policies. The topics may vary from year to year depending upon the interests of the instructor. (6 credits)

POLITICAL SCIENCE C436
Seminar on Politics of East Europe

A study of selected problems of government in the Soviet Union and Eastern Europe. (6 credits)

POLITICAL SCIENCE C438
Honours Tutorial

Prerequisite: Third-year Honours standing. Students will choose an area of study from one of the various fields in Political Science and, under the guidance of a faculty supervisor, must prepare and submit an appropriate Honours research paper. (6 credits)

POLITICAL SCIENCE C450
Seminar on Quebec Government and Politics

Prerequisite: Political Science C250 or C353. An institutional and functional survey of the executive, legislative, judicial and administrative branches of the Quebec government. A detailed study of Quebec's jurisdictional and fiscal problems with the federal government. Discussion on the political process in Quebec; the electoral system, political parties, pressure groups and public opinion. The role of the Catholic Church in Quebec politics. A study of the most important thinkers in French Canada. (6 credits)

POLITICAL SCIENCE C451
Canadian External Affairs

Prerequisite: Political Science C210 or C250. This course will study Canada's position in the world. The presentation will include an outline of the diplomatic history of Canada, as well as an analysis of its foreign and defence policies. Emphasis will be given to the decision-making process by which policy is formulated and executed, with particular reference to Canadian relations vis-à-vis the United States; the Commonwealth; and the United Nations. (3 credits)

POLITICAL SCIENCE C452
Seminar on Canadian Federal, Provincial and Municipal Government

Prerequisite: Political Science C250. An analysis of various aspects of the three levels of government and the way in which they interact. In general, the emphasis will be on case studies and original research. (6 credits)

POLITICAL SCIENCE C453
The Provinces in Canadian Federalism

Prerequisite: Political Science C250. An analysis of regional political cultures in Canada; the development of provincial parties and public administrations; the rise of third parties; electoral behaviour and provincial public opinion. (3 credits)

POLITICAL SCIENCE C454
Seminar on Legislative, Executive and Judicial Decision-Making

Prerequisite: Political Science C250. An examination, using Canada as the model, of formation of decisions in the legislative, executive and judicial branches of government. (6 credits)

POLITICAL SCIENCE C460
Seminar on Government and Economic Policy

Prerequisite: Political Science C250 or C361. A seminar on the role of government

in the economic life of different countries; the relation of economic and political power, the changing balance of public and private power in political systems. Emphasis will be on Canadian government and economic policy formation. (6 credits)

POLITICAL SCIENCE C462
Seminar on Comparative Policy Problems of Advanced Industrial Societies

Prerequisite: Political Science C361 or C363 or permission of the Department. The seminar will examine in a comparative framework some of the major policy problems confronting advanced industrial societies (East and West). The aim of the seminar is to understand how similar problems are approached by different political systems and to discover what we can learn in Canada from the experience of other societies in managing socio-economic change. (6 credits)

POLITICAL SCIENCE C470
Contemporary Political Thought

Prerequisite: Political Science C270 or C271 and C273 or C371 and C373. A study of the most important political thinkers and the main currents of political thought in the past century. (6 credits)

POLITICAL SCIENCE C471
Political Thought and Ideology in Canada

A study of the writings of the most significant political and social thinkers in Canada, and of the main ideological orientations in Canadian politics. (3 credits)

POLITICAL SCIENCE C472
Seminar on Communications and Politics

Prerequisite: Permission of the Department. This course will include communication and national unity, communications and social mobilization, politics and the mass media, the use of political symbols, communication and authority and the "Canadian School" of culture and communications, based on Harold Innis. (6 credits)

POLITICAL SCIENCE C473
Seminar on Political Theory and Historical Understanding

Prerequisite: Political Science C270; or C271 and C273; or C371 and C373. An advanced seminar on the relation between historical understanding and political thought. (3 credits)

POLITICAL SCIENCE C474
Seminar on Political Theory and Scientific Method

Prerequisite: Political Science C270; or C271 and C273; or C371 and C373. An advanced seminar on the problems of applying scientific method in the study of politics. (6 credits)

POLITICAL SCIENCE C475
Marxism

Prerequisite: Political Science C270; or C271 and C273; or C371 and C373. A critical examination of the major texts of Marx and Engels and a study of representative selection of Marxist thinkers chosen from among the following: Kautsky, Plekhanov, Lenin, Luxemburg, Trotsky, Stalin, Lukacs, Gramsci, Althusser, Mao. (3 credits)

POLITICAL SCIENCE C490
Advanced Topics in Political Science

Prerequisite: Permission of the Department. This course is designed primarily for Honours students. Its purpose is to provide an opportunity for students to intensify their study beyond the areas of specialization already represented in the curriculum. The topic will vary with the special interest of the instructor offering the course. (6 credits)

POLITICAL SCIENCE C492
Advanced Study in a Special Subject

Prerequisite: 6 credits in Political Science and enrolment in a Major or Honours programme in the Social Sciences. Subject matter will vary from year to year depending on the interests of the instructor. This course will provide opportunities to senior students for discussion and advanced study. (6 credits)

POLITICAL SCIENCE C494
Advanced Study in a Special Subject

Prerequisite: Political Science C492 and permission of the Department. A student repeating Political Science C492 registered for credits under Political Science C494. (6 credits)

POLITICAL SCIENCE C495
Advanced Study in a Special Subject

Prerequisite: 6 credits in Political Science and enrolment in a Major or Honours programme in the Social Sciences or permission of the Department. Subject matter will vary from year to year to take advantage of the special interests of the instructor. This course will provide opportunities to senior students for discussion and advanced study. (3 credits)

POLITICAL SCIENCE C497
Advanced Study in a Special Subject

Prerequisite: Political Science C495 and permission of the Department. A student repeating Political Science C495 registers for credits under Political Science C497. (3 credits)

31.27 Psychology

Chairman
N. SEGALOWITZ, *Associate Professor*

Professors
Z. AMIT
H. LADD
T. ARBUCKLE-MAAG
C. PERRY
A. SCHWARTZMAN
J. STEWART
R. A. WISE
J. ZWEIG

Associate Professors
D. ANDRES
P. BABARIK
J. H. BAUER
W. BRENDER
G. BRETON
M. BROSS
E. BRUSSELL
J. CHAIKELSON
A. B. DOYLE
D. GOLD
T. GRAY
A. HILTON
W. HOOPER
M. K. KOMODA
R. M. LAMBERT
V. MAHEUX
R. D. SEENS
P. SERAGANIAN
L. SERBIN
M. L. SHAMES
P. SHIZGAL
N. TAYLOR
C. WHITE

Associate Professor of Applied Social Science and Psychology
D. HACCOUN

Associate Professor of Education and Psychology
D. WHITE

Assistant Professors
E. HENRIK
J. LEDINGHAM
E. MOULEDOUX
F. J. SPRINGSTON
M. WEST

Adjunct Associate Professor
A. SUTHERLAND

Adjunct Assistant Professor
G. NEMETH
A. PUTTERMAN
E. LIBMAN

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Students must apply to the Departmental Honours Adviser for formal admission to Honours Programmes. The application is usually made after completion of the first year courses.

Students seeking admission to the Honours programme on or after June 1, 1977, will be bound by the Honours requirements outlined in Section 16.2.4 of this calendar.

Students who already had Honours status by June 1, 1977, will continue to be governed by the requirements which applied at the date of their admission to the Honours programme.

Psychology courses that count as science credits for the B.Sc. degree

Psychology research methods and statistics courses count as science credits. Courses that have research methods and statistics (PSYCHOLOGY C310 and C315) as a prerequisite also count as science credits.

For additional information concerning programmes and courses students may consult the course guide published annually by the Department.

66 BA Honours in Psychology

Year I
6 PSYC C310^3, C311^3
3 PSYC C315^3 concurrently with C310^3
3 PSYC C316^3 concurrently with C311^3
6 PSYC C320^6

Years II and III
6 PSYC C345^6 *or* C348^6 *or* C351^6
6 PSYC C357^6 *or* C360^6 *or* C363^6 *or* C366^6
12 Chosen from PSYC C330^6, C333^6, C336^6, C339^6, C342^6
12 Department approved Psychology electives at '300' or '400' level.

Year III
6 PSYC C420^6
6 PSYC C430^6

75 BSc Honours in Psychobiology

Year I
6 PSYC C310^3, C311^3
3 PSYC C315^3 concurrently with C310^3
3 PSYC C316^3 concurrently with C311^3
6 PSYC C320^6
6 CHEM C221^3, C222^3
3 BIOL C230^3

Years II and III
6 PSYC C357^6
6 PSYC C360^6
6 Chosen from PSYC C345^6, C348^6, C351^6
6 CHEM C371^6 *or* BIOL C333^6
6 Chosen from BIOL C260^3, C321^3, C335^3, C336^3, C363^3, C364^3, C365^3, C462^3; CHEM C475^3, C476^3, PSYC C369^3

6 Department approved Psychology electives at '300' or '400' level
6 PSYC C420[6]
6 PSYC C430[6]

72 BSc Honours in Psychology with Mathematics Option

Year I
6 PSYC C310[3], C311[3]
3 PSYC C315[3] concurrently with C310[3]
3 PSYC C316[3] concurrently with C311[3]
6 PSYC C320[6]
Years I and II
A total of 18 credits to be taken from the following two blocks of courses
6-12 Chosen from MATH C210[3], C261[6], C281[6], C310[3], C311[3], C343[3], C392[3]
6-12 Chosen from MATH C231[3], C271[3], C312[3], C344[6], C351[3], C353[3], C371[3]
Years II and III
6 PSYC C381[3], C384[3]
6 PSYC C354[6]
6 PSYC C345[6] *or* C348[6] *or* C351[6]
6 Department approved Psychology electives at '300' or '400' level
Year III
6 PSYC C420[6]
6 PSYC C430[6]

60 BA Specialization in Psychology

Year I
6 PSYC C310[3], C311[3]
3 PSYC C315[3], concurrently with C310[3]
3 PSYC C316[3], concurrently with C311[3]
6 PSYC C320[6]
Year II and III
6 PSYC C345[6] *or* C348[6] *or* C351[6]
6 PSYC C357[6] *or* C360[6] *or* C363[6] *or* C366[6]
12 Chosen from PSYC C330[6], C333[6], C336[6], C339[6], C342[6]
18 Department approved Psychology electives at '300' or '400' level.

66 BSc Specialization in Psychology with Mathematics Option

Year I
6 PSYC C310[3], C311[3]
3 PSYC C315[3] concurrently with C310[3]
3 PSYC C316[3] concurrently with C311[3]
6 PSYC C320[6]
Years I and II
A total of 18 credits to be taken from the following two blocks of courses
6-12 Chosen from MATH C210[3], C261[6], C281[6], C310[3], C311[3], C343[3], C392[3]
6-12 Chosen from MATH C231[3], C271[3], C312[3], C344[6], C351[3], C353[3], C371[3]
Years II and III
6 PSYC C381[3], C384[3]
6 PSYC C354[6]
6 PSYC C345[6] *or* C348[6] *or* C351[6]
12 Department approved Psychology electives at '300' or '400' level

66 BSc Specialization in Psychobiology

Year I
6 PSYC C310[3], C311[3]
3 PSYC C315[3] concurrently with C310[3]
3 PSYC C316[3] concurrently with C311[3]
6 PSYC C320[6]
6 CHEM C221[3], C222[3]
3 BIOL C230[3]
Years II and III
6 PSYC C357[6] *or* C360[6]
6 PSYC C345[6] *or* C348[6] *or* C351[6]
6 CHEM C371[6] *or* BIOL C333[6]
6 Chosen from BIOL C260[3], C321[3], C335[3], C336[3], C363[3], C364[3], C365[3], C462[3], CHEM C475[3], C476[3], PSYC C369[3]
15 Department approved Psychology electives at '300' or '400' level

42 BA Major in Psychology

Year I
6 PSYC C310[3], C311[3]
3 PSYC C315[3] concurrently with C310[3]
6 PSYC C320[6]
Years II and III
A total of 18 credits to be taken from the following two sets of courses
6-12 Chosen from PSYC C345[6], C348[6], C351[6], C357[6], C360[6] (or C363[6]), C366[6]
6-12 Chosen from PSYC C330[6], C333[6], C336[6], C339[6], C342[6]
9 Department approved Psychology electives at '300' or '400' level

42 BSc Major in Psychology

Year I
6 PSYC C310[3], C311[3]
3 PSYC C315[3] concurrently with C310[3]
6 PSYC C320[6]
Years II and III
6 PSYC C357[6] *or* C360[6] *or* C363[6]
12 Chosen from PSYC C342[6], C345[6], C348[6], C351[6], C366[6], C381[3], C384[3]
9 Department approved Psychology electives at '300' or '400' level

30 Minor in Psychology

Year I
3 PSYC C310[3]
3 PSYC C315[3] concurrently with C310[3]
6 PSYC C320[6]
Years II and III
12 Chosen from PSYC C330[6], C333[6], C336[6], C339[6], C342[6], C345[6], C348[6], C351[6], C357[6], C366[6]
6 Department approved Psychology electives at '300' or '400' level

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Because of the renumbering of Psychology courses students should consult Section 200 for a list of equivalent courses.

PSYCHOLOGY C200
Introductory Psychology

This comprehensive survey course will introduce the student to the phenomena and terminology encountered in a number of areas of scientific psychology. Topics covered include basic mechanisms of the receptors and nervous system, memory, motivation, perception, learning, abnormal psychology, personality, cognition, and social aspects of behaviour. (6 credits)
NOTE: Students who have credit for or exemption from Introductory Psychology at CEGEP or elsewhere cannot take this course for credits.

SELECTED TOPICS IN PSYCHOLOGY

The following 3-credit courses, numbered at the '200' level, are designed as elective courses for students who are not registered in a psychology programme. The particular topic covered will vary from session to session and from campus to campus. The material will be dealt with in a manner appropriate for students who have little or no formal background in psychology. Students registered in a psychology programme will not normally take these courses for credit. It is not possible to offer topics in all the subject areas each session. Students should consult the Psychology Department Course Guide (published yearly) for details of which topics are available in each session.

PSYCHOLOGY C220
Selected Topics in Developmental Psychology A
(3 credits)

PSYCHOLOGY C221
Selected Topics in Developmental Psychology B
(3 credits)

PSYCHOLOGY C222
Selected Topics in Social Psychology A
(3 credits)

PSYCHOLOGY C223
Selected Topics in Social Psychology B
(3 credits)

PSYCHOLOGY C224
Selected Topics in Individual Differences A
(3 credits)

PSYCHOLOGY C225
Selected Topics in Individual Differences B
(3 credits)

PSYCHOLOGY C226
Selected Topics in Personality A
(3 credits)

PSYCHOLOGY C227
Selected Topics in Personality B
(3 credits)

PSYCHOLOGY C228
Selected Topics in the Application of Psychology A
(3 credits)

PSYCHOLOGY C229
Selected Topics in the Application of Psychology B
(3 credits)

PSYCHOLOGY C230
Selected Topics in Learning and Motivation A
(3 credits)

PSYCHOLOGY C231
Selected Topics in Learning and Motivation B
(3 credits)

PSYCHOLOGY C232
Selected Topics in Sensory and Perceptual Processes A
(3 credits)

PSYCHOLOGY C233
Selected Topics in Sensory and Perceptual Processes B
(3 credits)

PSYCHOLOGY C234
Selected Topics in Cognitive Processes A
(3 credits)

PSYCHOLOGY C235
Selected Topics in Cognitive Processes B
(3 credits)

PSYCHOLOGY C236
Selected Topics in Physiological Psychology A
(3 credits)

PSYCHOLOGY C237
Selected Topics in Physiological Psychology B
(3 credits)

PSYCHOLOGY C310
Research Methods in Experimental Psychology I

Prerequisite: Introductory Psychology or equivalent, PSYC C315 to be taken concurrently. An examination of the experimental method in psychology. Students will complete experimental projects to acquaint them with procedures in various areas of psychology such as perception, learning and motivation. Statistical procedures for analysis of the results of the experiments will be presented in the concurrently taught course in psychological statistics. Lectures and laboratory. (3 credits)

PSYCHOLOGY C311
Research Methods in Experimental Psychology II

Prerequisite: PSYC C310 and C315. This course will build on the experience gained in PSYC C310 and C315. It will be devoted to a critical examination of more complex designs used in psychology. Students will be required to conduct and evaluate experiments and an opportunity will be provided to undertake a supervised research project. (3 credits)

PSYCHOLOGY C312
Field Research Methodology

Prerequisite: PSYC C310 and C315. This course will deal with techniques for studying complex behaviour in non-laboratory settings. Topics such as the neutrality or invisibility of the observers, participant observation, categorization and recording problems may be studied. The relationship between laboratory findings and findings from the non-laboratory setting will be considered. (3 credits)

PSYCHOLOGY C315
Statistical Analysis in Experimental Psychology I

Prerequisite: Elementary Algebra and Functions or equivalent. PSYC C310 to be taken concurrently. This course is an introduction to statistics presented in an experimental psychology context. Topics dealt with include frequency distributions, measures of central tendency and dispersion, the normal curve, correlation, elementary probability theory, an introduction to hypothesis testing and the *t* test. These topics are coordinated

with the laboratory projects in Research Methods I which must be taken concurrently. (3 credits)
NOTE: Only 6 credits will be awarded from MATH C241, PSYC C315, and PSYC C316.

PSYCHOLOGY C316
Statistical Analysis in Experimental Psychology II

Prerequisite: PSYC C310 and C315. This course builds on the experience derived from PSYC C310 and C315 to advance the student's understanding of hypothesis testing and statistical inferences. The material dealt with will include non-parametric statistics, the chi-square and F-distribution, introductory analysis of variance and various correlational techniques. (3 credits)
NOTE: Only 6 credits will be awarded from MATH C241, PSYC C315 and PSYC C316.

PSYCHOLOGY C317
Introductory Statistical Methods in Psychology

Prerequisite: Any two CEGEP courses in Mathematics. Topics dealt with include frequency distributions, measures of central tendency and dispersion, correlation and regression, elementary probability theory, the binomial and normal distributions, sampling and statistical inference, simple analysis of variance, miscellaneous non-parametric techniques. Lectures and laboratory. Only 6 credits will be recognized from PSYC C315, C316, or C317. (6 credits)

PSYCHOLOGY C318
Advanced Statistical Methods in Psychology

Prerequisite: PSYC C315 and C316, or C317 or equivalent. The course is intended for students who already possess some background in statistics. Knowledge of elementary descriptive and inferential statistics will be assumed. The course will cover topics such as advanced analysis of variance designs, introductory multivariate and analysis, advanced topics in correlation and regression. (6 credits)

PSYCHOLOGY C320
Modern Psychology in Historical Perspective

Prerequisite: Introductory Psychology or equivalent. The course deals with the historical background of psychology from ancient and mediaeval times up to the present. Early contributions to psychology from the fields of philosophy, physics, physiology and psychophysics are presented and related to the various schools of psychological thought from the late nineteenth century to the modern era. (6 credits)

PSYCHOLOGY C330
Developmental Psychology

Prerequisite: PSYC C310 and C315. Basic findings and contemporary issues concerned with human cognition, social, and emotional development are considered. The course deals with a variety of topics such as the behavioural organization and competence of the newborn, relationships in the pre-school period, effects of different early environments, Piaget's theory of cognitive development. (6 credits)

PSYCHOLOGY C333
Social Psychology

Prerequisite: PSYC C310 and C315. The behaviour of the individual as a member of a larger grouping or society will be dealt with. The study of the social influences on individuals or groups will involve consideration of topics such as attitude change and development, intragroup communication and problem solving, leadership, prejudice, development of social movements and cults. (6 credits)

PSYCHOLOGY C336
Personality

Prerequisite: PSYC C310 and C315. The organization, functioning and development of personality will be discussed according to major theories of personality. Evidence from experimental studies and field findings are discussed. Socioeconomic, cultural and biological system factors may also be considered. (6 credits)

PSYCHOLOGY C339
Behaviour Disorders

Prerequisite: PSYC C310 and C315. The course will deal with contemporary research and theory related to the aetiology, diagnosis, and treatment of various psychological disorders. Psychoneuroses, psychoses, and psychosomatic conditions will be studied. Social, learning, and biological influences on the development of such disorders as schizophrenia, depression, anxiety neuroses, and phobias will be discussed. (6 credits)

PSYCHOLOGY C342
Motivation

Prerequisite: PSYC C310 and C315. Contemporary theory and empirical research concerned with factors related to the initiation and maintenance of goal directed behaviour will be reviewed and evaluated. Research findings from human and sub-human studies in such areas as hunger, sleep, sex, aggression, cooperation and competition may be presented and evaluated. (6 credits)

PSYCHOLOGY C345
Learning

Prerequisite: PSYC C310 and C315. Current theories and research findings concerning the basic mechanisms of learning are considered. The current status of the Pavlovian and instrumental conditioning paradigms will be reviewed from behavioural and cognitive viewpoints. Topics such as the mechanisms of reinforcement, cognitive versus associative theories of conditioning, memory and control of autonomic nervous sytem responses will be dealt with. (6 credits)

PSYCHOLOGY C348
Sensory and Perceptual Processes

Prerequisite: PSYC C310 and C315. Physiological and psychological bases of sensory and perceptual phenomena will be discussed. Topics such as pitch perception, colour vision, perception of movement, size, and distance are included. The areas of sensation and perception are integrated via a human information-processing approach to the understanding of auditory and visual phenomena. (6 credits)

PSYCHOLOGY C351
Cognitive Processes

Prerequisite: PSYC C310 and C315. The course will involve a study of the processes involved in thought and language. Possible topics for discussion are cognitive development, psycholinguistics, pattern recognition, organization and memory, attention, problem solving, concept formation and creativity. (6 credits)

PSYCHOLOGY C354
Mathematical Theories of Behaviour

Prerequisite: PSYC C310 and C315. The course will survey applications of mathematical techniques to problems of psychology in such areas as motivation, learning, decision making, sensory psychophysics, and perception. Students enrolling in this course should have a mastery of elementary probability theory and should be confident of their ability to deal with elementary calculus, algebra and logic. (6 credits)

PSYCHOLOGY C357
Physiological Psychology

Prerequisite: PSYC C310 and C315, or permission of the Department. The course deals with current theory and research concerning the neural and humoral bases of behaviour. The biological bases of behaviour will be clarified via study of such topics as the function of nerve cells and circuits, brain-hormone interactions, physiological mechanisms of sensation, perception, memory, and coordinated movement. (6 credits)

PSYCHOLOGY C360
Brain Chemistry and Behaviour

Prerequisite: PSYC C310 and C315, or second or third year standing in a chemistry or biology programme. Neural systems will be classified in terms of their different chemical transmitter substances. The mechanisms of hunger, thirst, pain, reward, drug abuse and the neurochemical basis of disorders such as schizophrenia, depression, and Huntington's Chorea may be discussed. Methods for the identification and selective stimulation and destruction of the various systems are included. (6 credits)

PSYCHOLOGY C363
Anatomical and Physiological Bases of Motivation and Emotion

Prerequisite: PSYC C310 and C315. A study of determinants: neural, hormonal, stimulus and experential determinants of behaviour. Emphasis will be on factors which account for the initiation, direction, and regulation of behaviour. Animal and human research data underlying major psychological theories of motivated behaviours will be emphasized. (6 credits)

PSYCHOLOGY C366
Animal Behaviour

Prerequisite: PSYC C310 and C315 or permission of the Department. The study of animal behaviour will be approached from the point of view of sociobiology, ethology, and comparative psychology. Research findings from the experimental laboratory and from studies of animals in their natural environment will be discussed. A study of genetic and evolutionary aspects of behaviour is intrinsic to the course. (6 credits)

PSYCHOLOGY C369
Hormones and Behaviour

Prerequisite: PSYC C310 and C315. The course deals with the role of hormones in integrating the activity of various neural, endocrine and sensory systems to bring about organized, purposeful behaviour. Topics discussed include the reproductive, sexual, or environmentally adaptive systems, with treatment of material ranging from the molecular to the behavioural level. (3 credits)

PSYCHOLOGY C375
Industrial and Organizational Psychology

Prerequisite: PSYC C310 and C315. A systematic examination of current research and theory about human behaviour as it occurs in the context of work organizations. Possible topics are: motivation to work, communication in organizations, career development, and systems approach to conceptualizing the social psychology of organizations. (6 credits)

PSYCHOLOGY C378
Learning in the Classroom

Prerequisite: PSYC C310 and C315. A systematic examination of psychological principles and research reports that contribute to an understanding of learning in the school. (6 credits)

PSYCHOLOGY C381
Scaling

Prerequisite: PSYC C310 and C315. The theoretical basis and application of scaling methods in psychophysics and social psychology will be studied. Quantitative scales for the measurement of attitudes and sensations will be derived and constructed. Other topics that may be covered include subjective estimate methods, the law of comparative judgement, unfolding techniques and signal detection theory. (3 credits)

PSYCHOLOGY C384
Measurement

Prerequisite: PSYC C310 and C315. A consideration of the general theory of psychological measurement and its application in the development and use of various psychometric instruments such as achievement, intelligence, aptitude, personality, and interest tests. Derived scores, norms, reliability, and validity of these instruments will be discussed in the context of general measurement problems in psychology. (3 credits)

PSYCHOLOGY C390
Sexual Differentiation

Prerequisite: Introductory Psychology or equivalent. The genetic, hormonal, and social influences shaping the behavior of men and women from embryonic life through adulthood are examined. Topics discussed include gender identity, sexuality, aggression, and cognitive abilities. The course, primarily approached from the point of view of women includes an exploration of some of the myths surrounding the differences between men and women. (6 credits)

PSYCHOLOGY C391
Adolescence

Prerequisite: Introductory Psychology or equivalent. The course will deal with various topics in the psychology of adolescence.

Possible areas for study in some depth are: physical change, sexual and sex-related behaviours, socialization, intelligence and cognitive growth, school achievement and lifestyles. (3 credits)

PSYCHOLOGY C392
Learning Disabilities

Prerequisite: Introductory Psychology or equivalent. The course will deal with selected aspects of current theory, research, and practice related to children's learning disabilities. (3 credits)

PSYCHOLOGY C393
Psychology of Language and Communication

Prerequisite: Introductory Psychology or equivalent or 6 credits in Introductory Linguistics or permission of the department. The course deals with the cognitive, developmental and social aspects of language and human communication. Topics discussed may include psychological consideration of modern linguistic theories, child language development, second language development in children and adults, speech perception, biological basis of language, social psychological aspects of human communication. (6 credits)

PSYCHOLOGY C394
Community Psychology

Prerequisite: Introductory Psychology or equivalent. The course will relate psychology to the day to day problems of man-in-society. The contributions of psychology to community leadership in the study of personal, social, cultural, and ecological arrangements will be considered as they relate to such institutions as the family, school, prisons, health and welfare, and political structures. (6 credits)

SELECTED PROBLEMS IN PSYCHOLOGY

The following 3-credit courses are designed for students enrolled in a Psychology programme. The particular topics covered will vary from session to session and campus to campus. The material will be dealt with in a manner that assumes a background in experimental psychology, and, in some cases, specific preparation via prior completion of a related course. Only some of the problem areas will be available in a given session. Students should consult the psychology department course guide for details concerning these courses.

PSYCHOLOGY C331
Selected Problems in Developmental Psychology A
(3 credits)

PSYCHOLOGY C332
Selected Problems in Developmental Psychology B
(3 credits)

PSYCHOLOGY C334
Selected Problems in Social Psychology A
(3 credits)

PSYCHOLOGY C335
Selected Problems in Social Psychology B
(3 credits)

PSYCHOLOGY C337
Selected Problems in Personality A
(3 credits)

PSYCHOLOGY C338
Selected Problems in Personality B
(3 credits)

PSYCHOLOGY C343
Selected Problems in Learning and Motivation A
(3 credits)

PSYCHOLOGY C344
Selected Problems in Learning and Motivation B
(3 credits)

PSYCHOLOGY C349
Selected Problems in Sensory and Perceptual Processes A
(3 credits)

PSYCHOLOGY C350
Selected Problems in Sensory and Perceptual Processes B
(3 credits)

PSYCHOLOGY C352
Selected Problems in Cognitive Processes A
(3 credits)

PSYCHOLOGY C353
Selected Problems in Cognitive Processes B
(3 credits)

PSYCHOLOGY C358
Selected Problems in Physiological Psychology A
(3 credits)

PSYCHOLOGY C359
Selected Problems in Physiological Psychology B
(3 credits)

PSYCHOLOGY C373
Selected Problems in the Application of Psychology A
(3 credits)

PSYCHOLOGY C374
Selected Problems in the Application of Psychology B
(3 credits)

PSYCHOLOGY C400
Advanced Experimental Psychology

Prerequisite: PSYC C310, C311, C315, C316 or equivalent, and permission of the Department. The course provides experience in the design, conduct, analysis and reporting of independent research in the major areas of psychology. The research will be undertaken under the supervision of a faculty member. (6 credits)

PSYCHOLOGY C410
Supervised Practicum in Psychology

Prerequisite: PSYC C310, C311, C315 and/or permission of the Department. A limited number of opportunities for gaining advanced practical experience in various institutional or field work settings will be available. The student activities will be closely supervised by a qualified faculty member. (6 credits)

PSYCHOLOGY C420
Honours Seminar

Prerequisite: Permission of the Department. Open to final year Honours students. The seminar will deal, in depth, with the research and theory relevant to selected contemporary issues in psychology. (6 credits)

PSYCHOLOGY C430
Honours Thesis

Prerequisite: Permission of the Department. Open to final year Honours students. This course will require the student to propose and conduct a study and submit a thesis written according to the APA format. The work will be supervised by a Thesis chairman selected by the student from within the Department. (6 credits)

PSYCHOLOGY C437
Directed Research in Psychology

Prerequisite: PSYC C310, C311, C315, C316 or equivalent and permission of the Department. Under the supervision of a faculty member, the student is to carry out an independent research project and report it in writing. The area of study must be decided upon through consultation with the faculty member. (3 credits)

PSYCHOLOGY C438
Directed Readings in Psychology

Prerequisite: Acceptance by a supervisor and confirmation by the Department. This course is designed for the advanced student wishing to do independent individually supervised literature research on a specific topic in psychology. This research will culminate in a written paper. Students should have a well defined topic before registering for this course. (6 credits)

PSYCHOLOGY C440
Special Advanced Seminar

Prerequisite: Prerequisites will vary according to the topic covered. Normally open to final year majors, honours, or specialization students. Various specialized topics will be dealt with in depth at an advanced level. (3 credits)

PSYCHOLOGY C441
Special Advanced Seminar

Students who have received credit for PSYC C440 may register under PSYC C441. (3 credits)

PSYCHOLOGY C442
Special Advanced Seminar

Prerequisite: Prerequisites will vary according to the topic covered. Normally open to final year majors, honours, or specialization students. Various specialized topics will be dealt with in depth at an advanced level. (3 credits)

PSYCHOLOGY C443
Special Advanced Seminar

Students who have received credit for PSYC C442 may register under PSYC C443. (3 credits)

31.28 Religion

Chairman
J. LIGHTSTONE, *Assistant Professor*

Professors
C. DAVIS
M. DESPLAND
S. McDONOUGH

Associate Professors
F. B. BIRD
D. MILLER
J. ROSSNER

Assistant Professors
M. OPPENHEIM

Lecturers
H. JOSEPH
M. HANSON
I. ROBINSON

Adjunct Associate Professors
J. B. LIGHTMAN
D. ROME

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Honours in Religion

6 RELI C211[6]
6 RELI C213[6] or C222[6]
12 from one of three areas of specialization:
- A. *Asian religions:* Chosen from RELI C311[6], C312[6], C313[6], C391[3], C392[3]
- B. *Christianity:* Chosen from RELI C301[3], C302[3], C361[6], C362[6], C363[6]
- C. *Judaism:* Chosen from RELI C301[3], C302[3], C325[3], C326[3], C327[3], C328[3], C329[3], C330[3], C395[3], C396[3]

6 from courses specified in a second area above
6 Chosen from RELI C331[3], C332[3], C333[3], C334[3], C341[6], C364[6], C393[3], C394[3], C435[6], C443[6], C465[6]
6 Elective credits in chosen area of specialization at 400 level
6 RELI Elective credits at 300 or 400 level
12 Elective credits in RELI or related Discipline (in consultation with Departmental Honours Adviser)

72 BA Joint Honours in English and Religion

6 Chosen from ENGL C256 through C284
6 Chosen from ENGL C286 through C305; C376[6], C377[6]
6 Chosen from ENGL C310[6], C311[3], C312[3], C320[6], C328[3], C329[3], C330[6]
12 ENGL elective credits related by subject to courses in Religion to be chosen in consultation with the departments
6 ENGL elective credits
6 Chosen from RELI C211[6], C213[6], C222[6]

12 RELI C301[3], C302[3], C341[6]
6 Chosen from RELI C311[6], C312[6], C313[6], C326[3], C327[3], C328[3], C330[3], C361[6], C362[6]
12 RELI elective credits at 300 or 400 level related by subject matter to courses in English to be chosen in consultation with the departments

72 BA Joint Honours in Philosophy and Religion

12 RELI C211[6], C213[6], C222[6]
6 RELI C443[6]
6 RELI C331[3], C332[3], C341[6], C364[6]
12 RELI C301[3], C302[3], C311[6], C312[6], C313[6], C326[3], C328[3], C330[3], C361[6], C362[6], C363[6], C491[6], C492[6]
6 PHIL C201[3] and C223[3], C202[6], C211[6] or equivalent or, if exempted, PHIL electives
6 PHIL C460[6]
6 PHIL C226[3] and C228[3], C321[6], C369[6]
6 PHIL C351[6], C469[6], C485[6]
12 PHIL elective credits from Philosophy chosen in consultation with Departmental Adviser

66 BA Joint Honours in Religion and History

Pattern A (Asia)
30 HIST C218[6], C261[6], C337[6], C363[6], C390[6]
24 RELI C213[6], C311[6], C312[6], C313[6], C391[3], C392[3]
12 SOCI C200[6], C337[6]

NOTE: With the approval of the Honours adviser, any 6 credits at the 400 level in History or Religion may be substituted for any specific course.

Pattern B (Europe)
12 HIST C218[6], C390[6]
6 Chosen from RELI C211[6], C213[6]
48 Chosen from HIST C322[6], C327[6], C330[6], C334[6]; RELI C327[3], C328[3], C330[3]. C361[6], C362[6], C395[3], C396[3], C443[6]; SOCI* C200[6], C337[6]

* *Students taking SOCI C200 in the Honours programme must also take SOCI C337.*

60 BA Joint Honours in Sociology and Religion

18 ANTH C211[6], RELI C213[6], SOCI C200[6] or, if exempted, elective credits from the relevant department in consultation with the Departmental Honours Adviser
6 Chosen from RELI C301[6], C302[6], C363[6]
12 Chosen from RELI C311[6], C312[6], C313[6], C326[3], C327[3], C328[3], C330[3], C361[6], C362[6], C391[3], C392[3], C393[3], C394[3]

6 SOCI C300[6]
6 Chosen from SOCI C210[6], C330[6], C400[6], and C405[6]
6 Chosen from SOCI C337[6], ANTH C325[3] and other ANTH courses chosen in consultation with the Honours Adviser
6 Chosen from SOCI C409[6], RELI C491[6]

NOTE: Students preparing for graduate work should acquire a good reading knowledge of French or another language, in consultation with the Department.

120 Bi-University Major in Judaic Studies

By agreement between the University and Bar-Ilan University, Ramat-Gan, Israel, students may be admitted to a 120-credit bi-University programme designed to provide the academic base for prospective teachers in Jewish Studies programmes at the primary, elementary and junior high school levels in Canada. Admission to the programme depends upon acceptance by both Universities. Successful applicants may spend up to the first 24 months (i.e., two regular and two summer sessions) at Bar-Ilan. The balance of the requirements for the degree must be completed at Concordia while registered in the BA Major in Judaic Studies programme. Further information on the programme may be obtained from the Department of Religion.

48 BA Major in Judaic Studies

6 RELI C201[6] or equivalent
6 Chosen from RELI C211[6], C213[6]
21 Chosen from RELI C222[6], C301[3], C325[3], C326[3], C327[3], C328[3], C329[3], C330[3], C395[3], C396[3], C401[3], C497[3], C498[3]
6 Chosen from RELI C361[6], C362[6], C313[6]
9 Elective credits in related disciplines at 300 or 400 level (in consultation with the departmental Adviser)

NOTE: By agreement between the University and Bar-Ilan University, Ramat-Gan, Israel, students in this programme may take up to 30 Concordia-equivalent credits at Bar-Ilan. They must, however, meet the requirements for the major, and at least 12 credits of course work in Judaic Studies must be taken at Concordia.

Certificate in Judaic Studies

The Department of Religion offers a 30-credit programme leading to the Concordia University Certificate in Judaic Studies. The goal of the programme is: (a) to place the study of Judaism within the History of Religions; (b) to expose the student to the wide range of religious phenomena from biblical times to the present, which are included under the rubric of "Judaism" or "Israelite religion"; (c) to allow for more specialized study of one or more of these Judaic modes.

30 Certificate in Judaic Studies

6 Chosen from RELI C211[6] or RELI C213[6]
6 RELI C222[6]
18 Chosen from RELI C301[3], C302[3], C325[3], C326[3], C327[3], C328[3], C329[3], C330[3], C333[3], C334[3], C395[3], C396[3], C497[3], C498[3]

42 BA Major in Religion

6 Chosen from RELI C211[6], C213[6], C311[6], C312[6], C313[6], C391[3], C392[3]
6 Chosen from RELI C222[6], C301[3], C302[3], C326[3], C327[3], C328[3], C329[3], C330[3], C361[6], C362[6], C363[6]
30 RELI Elective credits at 300 or 400 level

30 Minor in Judaic Studies

6 RELI C201[6]
18 Chosen from RELI C222[6], C301[3], C302[3], C326[3], C327[3], C328[3], C329[3], C330[3], C395[3], C396[3]
6 Chosen from RELI C401[3], C497[3], C498[3] or Elective credits at 400 level (in consultation with the departmental Adviser)

30 Minor in Religion

30 RELI Elective credits (in consultation with the departmental Adviser)

RELIGION C201
Classical Hebrew

A study of the language of the classical Hebrew texts. The course is designed as a preparation for reading the Hebrew Bible, but takes account of other texts. (6 credits) *NOTE A/See § 200.1*

RELIGION C211
Understanding Religion

A systematic and topical introduction to the study of religion. The purpose of the course is to enable the student to articulate and investigate questions about the meaning and nature of religion. Problems discussed will include the elements of religious experience, forms of religious expression and interpretation, religious communities and practices and the questions raised by the contemporary interfaith dialogue. Materials will be taken from a variety of religious traditions. (6 credits) *NOTE A/See § 200.1*

RELIGION C213
Major Religious Traditions of the World

A historical and comparative overview of the major religious traditions of the world: Judaism, Christianity, Islam, Hinduism, Buddhism and Chinese religions. The course will include some consideration of the new religions in North America. (6 credits) *NOTE A/See § 200.1*

RELIGION C222
Judaic Studies: History of the Jewish People

An historical survey of the Jewish people from the Biblical Age until the beginning of the modern period. The survey will focus on both the sociological and the intellectual developments in this area. The emphasis will be on the formation and continuation of the major Jewish concepts, institutions, and traditions; on the dynamic forces in Jewish society and on the interrelationship between Jews and non-Jews during this period. (6 credits) *NOTE A/See § 200.1*

RELIGION C301
Biblical Studies I: The Hebrew Bible

An introduction to the methods and results of Biblical scholarship with regard to the history, culture and religion of Ancient Israel.

Particular attention is given to the major religious affirmations and theological concepts of the Hebrew Bible which have become central in the subsequent development of Judaism. (3 credits) *NOTE A/See § 200.1*

RELIGION C302
Biblical Studies II: The New Testament

An introduction to the methods and results of contemporary New Testament scholarship; a critical survey of New Testament literature considering, historical setting, history of text, religious and cultural significance. Attention is given to the central issues and concepts portrayed in the Synoptic, Johannine and Pauline writings and their importance in the subsequent development of the Western religious tradition. (3 credits) *NOTE A/See § 200.1*

RELIGION C311
The Religions of India, Ceylon, Southeast Asia

An historical study of the major religious traditions native to the Indian sub-continent, Ceylon and Southeast Asia. Although the course will concentrate upon the development of Hindu and Buddhist religious thought and institutions, consideration will be given to the influence of Jainism, Islam and Christianity upon Hinduism and Theravada Buddhism. The course will end with an analysis of the contemporary religious situation in India and Burma. (6 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Asian Studies Programme.

RELIGION C312
The Religions of China and Japan

An historical study of the religious traditions of premodern China, Tibet and Japan. After a brief introduction to the origin of Buddhism in India, the course will focus upon the development of religious thought and institutions in Mahayana Buddhism, Taoism, Confucianism and Shinto. The course will end with an analysis of the contemporary religious situation in China and Japan. (6 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Asian Studies Programme.

RELIGION C313
Islam

A study of the rise and development of Islamic religion and culture, with special attention to mysticism and to modernism. (6 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Asian Studies Programme.

RELIGION C325
The Bible and the Ancient Near East

The significance of Old Testament Institutions within the context of the ancient Mediterranean world. Law, covenant, writing, historiography, the relationship between man and God, sin, sacrifice and atonements will be discussed. Readings from contemporary literature in translation (Babylonian, Egyptian, Greek, Hittite, Ugarite). (3 credits) *NOTE A/See § 200.1*

RELIGION C326
Classical Judaism

The concepts and institutions of classical or 'normative' Judaism, in the setting of the Hellenistic-Roman world. A conceptual approach to law, ethics, philosophy and culture of post-Biblical Judaism. Consideration will be given to sectarianism and sectarian movements (Samaritans, Dead Sea Scrolls) and their relationship to the major Jewish 'Schools' (Pharisees, Sadducees, Essenes) and to the early Christian Church. (3 credits) *NOTE A/See § 200.1*

RELIGION C327
Mediaeval Jewish Thought and Institutions

Topics in the intellectual, religious, and social history of selected Jewish communities during the Middle Ages. Both internal Jewish developments and changing Jewish relations with their non-Jewish neighbours will be considered. (3 credits) *NOTE A/See § 200.1*

RELIGION C328
Modern Jewish Thought and Institutions I (1780-1880)

A survey of the social and intellectual currents which have shaped Jewish modernism from the beginning of emancipation until 1880. Topics will include: the emergence of modern Jewish consciousness, Jewish pluralism and religious differentiation within Jewish society (Haskalah, Hasidism, science of Judaism, orthodoxy, reform and conservatism), secular versus religious values, disintegration and unification within the Jewish community. (3 credits) *NOTE A/See § 200.1*

RELIGION C329
Sefardic Judaism

A critical analysis of the religious traditions peculiar to Sefardic Jews. Particular attention will be given to North African Judaism. (3 credits) *NOTE A/See § 200.1*

RELIGION C330
Modern Jewish Thought and Institutions II (1880 to the present)

A survey of social and intellectual currents in Jewish society from 1880 until the present. Topics will include: the impact of anti-Semitism, particularism and universalism, nationalism and its critics, Jewish existentialism and the new mysticism (Rosenzweig, Buber, Rabbi Kook), reactions to the holocaust, and the relationship between Israel and the diaspora. (3 credits) *NOTE A/See § 200.1*

RELIGION C331
Contemporary Ethical Issues: Personal

This course will identify and analyse ethical issues arising at the personal level today. Issues will be discussed in the context of the inter-relationship between moral values and religious convictions. Topics will vary from year to year, but some examples of areas that raise ethical and religious questions for personal existence are: affluence, alienation, work, leisure, aging, drugs. (3 credits) *NOTE A/See § 200.1*

RELIGION C332
Contemporary Ethical Issues: Societal

This course will identify and analyze ethical issues arising from social groups today. In discussing the issues, account will be taken of the bearing of religious institutions and traditions upon social attitudes and problems. Topics will vary from year to year, but examples of problem areas that have evoked

ethical and religious debate are: economic and social inequality, race relations, violence and war, hunger and poverty, population growth. (3 credits) *NOTE A/See § 200.1*

RELIGION C333
Women and Religion I

An examination of the roles and images of women in the history of religions. Topics might include: the development of patriarchal religion, religion and sexuality, women and myth, the roles of women in different religious communities. This course will include an integrated sequence of lectures (minimum three weeks) by an anthropologist on matriarchal and patriarchal societies. (3 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Women's Studies Programme.

RELIGION C334
Women and Religion II

An examination of the religious and ethical questions raised by contemporary discussions of women's experience. Topics might include: the recent beginnings of a feminist theology, the feminist critique of organized religion and society, the effects of male perspective upon philosophy and theology, and women in the ministry. (3 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Women's Studies Programme.

RELIGION C341
Religion and Literature

This course deals with the questions raised for the study of religion by works of literature. An account will be given of the recent development of interdisciplinary studies in religion and literature and of the problems of method that have arisen. The relation between the interpretation of religious language, with its use of myth, parable, symbol and metaphor, and literary criticism will be explored. The religious implications, direct and indirect, of selected literary works will be discussed. (6 credits) *NOTE A/See § 200.1*

RELIGION C361
Studies in the History of Christian Thought

An introduction to the classics of Christian thought from the Fathers to the modern period. Authors studied at length may vary from year to year, but in any case students will acquire a basic knowledge of Augustine, Aquinas, Luther and Calvin. (6 credits) *NOTE A/See § 200.1*

RELIGION C362
Questions from the Christian Tradition

A study of some of the major religious questions and controversies in the history of the Christian West. The questions chosen will vary, but examples are: grace and free will, faith and reason, history and eschatology, church and state, contemplation and action. (6 credits) *NOTE A/See § 200.1*

RELIGION C363
Religion in Canada

The historical development of the major religious traditions in Canada, their influence on the social, political and cultural areas of Canadian life and their contemporary significance. Attention will also focus on the interaction of Catholic, Protestant, Jewish, Indian and Eskimo groups. (6 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Canadian Studies Programme.

RELIGION C364
The Origin of Myth, Ritual and Magic in Western Culture

An historical study of the origins and development of esoteric beliefs and practices involving claims to paranormal spiritual and psychic powers or faculties of human beings. The course will survey the history of the so-called "magical" or "miraculous" elements in human religious experience from primitive to modern settings, through Egypt, India, Mesopotamia, Ancient Israel, Greece, and Rome, Early and Medieval Christianity, to the cults, sects, secretsocieties and quasi-religious movements of the modern period. (6 credits) *NOTE A/See § 200.1*

RELIGION C391
Special Topics in the History of Religions I

This course affords an opportunity to study a special theme in the History of Religions, taking advantage of the particular interests of members of the Department. (3 credits)

RELIGION C392
Special Topics in the History of Religions II

Students who have received credit for RELI C391 register under RELI C392 for credit providing the subject matter is different. (3 credits)

RELIGION C393
Special Topics in Religion and Culture I

This course affords an opportunity to study a special theme in religion and culture, taking advantage of the particular interests of members of the Department. (3 credits)

RELIGION C394
Special Topics in Religion and Culture II

Students who have received credit for RELI C393 register under RELI C394 for credit providing the subject matter is different. (3 credits)

RELIGION C395
Special Topics in Judaism I

This course affords an opportunity to study a special theme in Judaism, taking advantage of the particular interests of members of the Department. (3 credits)

RELIGION C396
Special Topics in Judaism II

Students who have received credit for RELI C395 may register under RELI C396 for credit providing the subject matter is different. (3 credits)

RELIGION C401
Advanced Studies in Classical Jewish Texts

This course will be based on representative readings from Biblical, post-Biblical and mediaeval Hebrew literature. It will concentrate on specific topics and will pay attention to the historical and philosophical background of the texts. (3 credits) *NOTE A/See § 200.1*

RELIGION C435
Comparative Religious Ethics: West & East

This course will identify the ways in which different religious and ideological traditions from West and East consider and deal with ethical issues. Examples of such traditions are Navaho, Jewish, Christian, Islamic, Hindu, Buddhist, Confucian, Humanist, Communist. The ethical values and ideals found in these traditions and their influence upon individual life patterns and social organization will be considered. (6 credits) *NOTE A/See § 200.1*

RELIGION C443
Modern Religious and Atheistic Thought

A historical and critical review of the conflicting philosophical interpretations of religion that have arisen in the West since the Enlightenment. Special attention will be paid to problems about the nature of meaning of religious experience currently debated between religious and secularist thinkers. (6 credits) *NOTE A/See § 200.1*
NOTE: This course may be taken for credits in the Science and Human Affairs Programme.

RELIGION C465
Classical Images of Man and Contemporary Psychical Research

A survey of recent scientific studies of paranormal phenomena occuring in dreams, visions, trance-states, hypnosis, and various ecstatic mystical experiences, the results of thanatological studies, the quest for post-mortem survival evidence, and general research in parapsychology and paraphysics. The course will relate this body of research to the various root typologies of classical human religious experience found in primitive, ancient-sacral, and classical religious traditions of East and West. (6 credits) *NOTE A/See § 200.1*

RELIGION C491
Special Seminar I

Prerequisite: Permission of the Department. Subject matter will vary from year to year to take advantage of the special interests of the seminar leader. This course will provide opportunities to senior students for discussion and advanced study. (6 credits) *NOTE C/See § 200.1*

RELIGION C492
Special Seminar II

Prerequisite: Permission of the Department. A student repeating Religion C491 registers for credits under Religion C492. (6 credits) *NOTE A/See § 200.1*

RELIGION C493
Religious Institutions

Prerequisite: Permission of the Department. Seminar on a particular period or institution in the history of religion. (3 credits) *NOTE C/See § 200.1*

RELIGION C494
Religious Institutions

Prerequisite: Permission of the Department. A student repeating Religion C493 registers for credits under Religion C494. (3 credits) *NOTE A/See § 200.1*

RELIGION C495
Religious Thinkers

Prerequisite: Permission of the Department. Seminar on a particular thinker or school of thought in the history of religion. (3 credits) *NOTE C/See § 200.1*

RELIGION C496
Religious Thinkers

Prerequisite: Permission of the Department. A student repeating Religion C495 registers for credits under Religion C496. (3 credits) *NOTE A/See § 200.1*

RELIGION C497
Topics in Jewish History

A study of a problem or area of concern in Jewish History. Possible topics might be: the nature of the Dead Sea Sect, the background of the expulsion of the Jews from Spain, Jewish reactions to catastrophe since 1492, Jewish nationalism in the twentieth century, Jewish messianic movements, history of the ancient Near East, history of the Jews in North America. (3 credits) *NOTE C/See § 200.1*

RELIGION C498
Topics in Jewish History

Prerequisite: Permission of the Department. A student repeating Religion 497 registers for credits under Religion C498. (3 credits) *NOTE A/See § 200.1*

31.29 Science

Certificate in the Teaching of Science (Elementary School Level)

Director
Assoc. Prof. G. TRUDEL

The Faculty of Arts and Science offers a Certificate in the Teaching of Science (Elementary School Level) for the professional development of teachers interested in science. Practising teachers are offered the opportunity to improve their knowledge of science in order to help them teach modern science more effectively. The presentation will generally be in workshop form with emphasis on assignments which develop activities for classroom use. Courses will be offered on and off campus during the Winter and Summer months, subject to sufficient demand and the availability of suitable instructors.

Admission Requirements
Admission to this programme is open to teachers who already hold either a general elementary licence or an elementary special education licence.

PROGRAMME

30 Certificate in the Teaching of Science (Elementary School Level)

30 Science C315[6], C316[6], C317[6], C318[6], C319[6]

NOTE: In some cases where students have completed similar courses in previous studies, the Faculty may grant pro-tanto credits up to a maximum of 12 credits.

Science courses in this programme have been renumbered.

SCIENCE C315
Philosophy and Methodology of Teaching Science, Elementary Level

A study of the role, impact, and responsibility of science at the elementary school level, a study of science programme design, teaching processes and classroom activities at the elementary level. (6 credits)
NOTE: This course is available only to practising teachers.
NOTE: Students who have received credit for SCIENCE C314 may not take this course for credits.

SCIENCE C316
Matter and Energy

Prerequisite: Science C315. States and properties of matter, change of state, force, common machines, mass, volume, expansion, gravitation, heat, light, sound, electricity, magnetism, other sources of energy, conservation of energy. (6 credits)
NOTE: This course is available only to practising teachers.
NOTE: Students who have received credit for SCIENCE C310 may not take this course for credits.

SCIENCE C317
Man and his Environment

Prerequisite: Science C315. Temperature, soil, water, air, atmosphere, reproduction, heredity, erosion, weather, nitrogen cycles, pollution, ecology and ecosystems. (6 credits)
NOTE: This course is available only to practising teachers.
NOTE: Students who have received credit for SCIENCE C311 may not take this course for credits.

SCIENCE C318
Our Earth and the Universe

Prerequisite: Science C315. Time cycles, volume, density, constitution and properties of solar system, gravity, seasons, water and carbon cycles. (6 credits)
NOTE: This course is available only to practising teachers.
NOTE: Students who have received credit for SCIENCE C312 may not take this course for credits.

SCIENCE C319
Living Things and Their Activities

Prerequisite: Science C315. The cellular structure of living things, food chains, plants, animals, germination, growth, soil, water, respiration, nutrition, life cycles. Classification into families, communities and populations. (6 credits)
NOTE: This course is available only to practising teachers.
NOTE: Students who have received credit for SCIENCE C313 may not take this course for credits.

31.30 Sociology and Anthropology

Chairman
J. SMUCKER, *Associate Professor of Sociology*

Assistant to the Chairman
N. SHARPE

Sociology

Professors
S. CHODAK
H. GUINDON
J. D. JACKSON
K. JONASSOHN

Associate Professors
H. T. BUCKNER
G. DEWEY
E. S. DRYSDALE
J. P. DRYSDALE
K. KUSANO
G. LeCAVALIER
J. C. MOULEDOUX
W. C. REIMER
A. J. SYNNOTT
J. F. TASCONE
J. TRESIERRA

Assistant Professors
B. D. CZARNOCKI
E. GAVAKI
S. HLOPHE
H. HORWICH
N. KYRIASIS
S. RUSSELL

Assistant Professor of Bio-Physical Education and Sociology
B. M. PETRIE

Lecturers
K. CHAN
M. CLARK
B. MILTON

Anthropology

Professor
C. S. BRANT

Associate Professor
A. N. KLEIN

Assistant Professor
P. J. deVRIES

Lecturer
D. LEGROS

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Students seeking admission to the Honours programme on or after June 1st 1977 will be bound by the Honours requirements outlined in § 16.2.4 of this Calendar. Students who already had Honours status by June 1st 1977 will continue to be governed by the requirements which applied at the date of their admission to the Honours programme.

60 BA Honours in Sociology

12 SOCI C200^6, C210^6
6 SOCI C300^6
18 SOCI C400^6, C409^6, C410^6
24 Sociology elective credits* in consultation with the Departmental Honours Adviser.

**With prior approval of the Departmental Honours Adviser the student may substitute up to 12 credits from a related discipline.*

60 BA Specialization in Sociology

6 SOCI C200^6
6 SOCI C300^6
6 SOCI C210^6
6 Chosen from SOCI C311^6, C410^6
6 SOCI C400^6
6 Chosen from SOCI C320^6, C330^6, C370^6, C372^6
24 Sociology elective credits* in consultation with the Departmental Adviser

**With prior approval of the Departmental Adviser the student may substitute up to 12 credits from a related discipline.*

42 BA Major in Sociology

6 SOCI C200^6
6 SOCI C300^6
6 Chosen from SOCI C210^6, C311^6, C312^6, C410^6
6 Chosen from SOCI C320^6, C330^6, C370^6, C372^6, C400^6
18 Sociology elective credits* in consultation with the Departmental Major Adviser.

**With prior approval of the Departmental Major Adviser the student may substitute up to 6 credits from a related discipline.*

30 Minor in Sociology

6 SOCI C200^6
6 SOCI C300^6
18 Sociology elective credits in consultation with Departmental Major Adviser. At least 9 of the 18 credits must be taken from courses numbered above the 200 level.

72 BA Joint Honours in Sociology and Philosophy

18 SOCI C200^6, C300^6, C409^6*
6 Chosen from ANTH C211^6, SOCI C400^6, C401^6, C405^6

12 Chosen from SOCI C320[6], C325[6], C330[6], C340[6], C360[6], C370[6], C435[6] and C460[6]
6 Chosen from PHIL C201[3] and C223[3], C202[6], C211[6]
6 Chosen from PHIL C224[6], C226[3], C228[3], C244[6], C245[3], C321[6]
6 Chosen from PHIL C241[6], C343[6], C345[6], C348[6], C460[6]
6 Chosen from PHIL C310[6], C313[6], C350[6], C417[6], C469[6], C485[6]
12 Chosen from PHIL C341[6], C342[3], C344[3], C346[3], C347[3] C352[6], C412[6], C421[6], C449[6], C453[6], C493[6], C496[3]

**On approval of the Honours Adviser, the prerequisites for SOCI C409 may be modified for students in this programme.*

60 BA Joint Honours in Sociology and Religion

18 ANTH C211[6], RELI C213[6], SOCI C200[6] or, if exempted, elective credits from the relevant department in consultation with the Departmental Honours Adviser
6 Chosen from RELI C301[6], C302[6], C363[6]
12 Chosen from RELI C311[6], C312[6], C313[6], C326[3], C327[3], C328[3], C330[3], C361[6], C362[6]
6 SOCI C300[6]
6 Chosen from SOCI C210[6], C330[6], C400[6], and C405[6]
6 Chosen from SOCI C337[6], ANTH C325[3] and other ANTH courses chosen in consultation with the Honours Adviser
6 Chosen from SOCI C409[6], RELI C491[6]

NOTE: Students preparing for graduate work should acquire a good reading knowledge of French or another language, in consultation with the Department.

66 BA Honours in Political Sociology

18 SOCI C200[6], C300[6], C435[6]
18 POLI C200[6], C270[6], C470[6]
12 Chosen from SOCI C400[6], C405[6], POLI C370[6], C372[6]
12 Chosen from SOCI C280[6], C320[6], C330[6], C335[6], C353[3], C354[3], POLI C230[6], C336[6], C351[6], C353[6], C360[6], C430[6]
6 Chosen from SOCI C409[6]*, POLI C438[6]

**On approval of the Honours Adviser, the prerequisites for SOCI C409 may be modified for students in this programme.*

Due to the renumbering of Sociology courses students should consult Section 200 for a list of equivalent courses.

SOCIOLOGY C200
Introduction to Sociology

Introduction to the basic concepts used in the study of social structure, processes, and change. Survey of the substantive areas of social life ranging from the relations between individuals and groups to institutions and total societies. (6 credits)

SOCIOLOGY C210
Statistics

An introduction to those descriptive and inferential statistics most applicable to the discipline of Sociology. (6 credits)

SOCIOLOGY C220
Social Organization

Examines the basic characteristics of societal organization through the use of comparative and evolutionary perspectives. Conceptual analysis of specific forms of, and changes in, the comprehensive pattern of social organization. (3 credits)

SOCIOLOGY C230
Race and Ethnic Relations

Race and ethnicity are examined as bases of social differentiation. Ethnic group relations are analyzed in relation to stratification and the exercise of power. Explorations of the phenomena of discrimination, prejudice, and intergroup accommodation. (3 credits)

SOCIOLOGY C260
Deviance

Examination of the nature, forms, sources, and consequences of deviations from social norms and the mechanisms of social order and control. Theories of deviant behaviour, including juvenile delinquency, and their social, legal, and practical implications are considered. (6 credits)

SOCIOLOGY C261
Social Problems

Consideration of a range of social problems from a sociological perspective. Examination of the process by which "problems" are socially defined and recognized. (3 credits)

SOCIOLOGY C270
Socialization

Examination of the social and cultural processes by which the individual becomes a functioning member of society. Attention given to adult socialization and re-socialization in diverse institutional contexts, e.g. schools, occupations, hospitals, prisons, the military. The relation of social structure to role acquisition and role performance is a major focus of the course. (6 credits)

SOCIOLOGY C272
The Family

The family as an institution is examined in relation to social structure and historical change. Special emphasis is placed on

trends in the nuclear family patterns of contemporary North American society and on the relation of the family to the broader societal environment. (6 credits)

SOCIOLOGY C280
Quebec Society

Focus upon the historic changes in Quebec society with emphasis upon the period following the Second World War. Examination of issues which have provoked conflicting interpretations, including the Conquest, the nature of Confederation, Quebec nationalism and the language question. (6 credits)

SOCIOLOGY C282
Canadian Society

Analysis of Canadian social structure and change; the relation of the whole of Canadian society to its constituent elements; and the relation of Canadian society to its international environment. (6 credits)

SOCIOLOGY C290
Selected Topics in Sociology A

Study of a special topic in sociology. (3 credits)

SOCIOLOGY C291
Selected Topics in Sociology B

Study of a special topic in sociology. (3 credits)

SOCIOLOGY C300
Classical Social Theory

Prerequisite: SOCI C200. Examination of the origins of sociology and of the sociological works of nineteenth and early twentieth century European theorists, with consideration of the social and political context. Particular emphasis is given to the works of Durkheim, Marx, and Weber. Readings include primary sources and critical commentaries. (6 credits)

SOCIOLOGY C310
Research Methods

Prerequisite: SOCI C200. Introduction to qualitative and quantitative methods of research in sociology. (6 credits)

SOCIOLOGY C311
Survey Research Methods

Prerequisite: SOCI C200 or C210. Examination of methods of conducting survey research. Topics include design, sampling, pretesting of instruments, data collection, logic of analysis, multivariate analysis, and report writing. (6 credits)

SOCIOLOGY C312
Field Work Research

Prerequisite: SOCI C200. Study of methods of field work research in sociology. (6 credits)

SOCIOLOGY C320
Comparative Social Systems

Prerequisite: SOCI C200 or C220. Examination of the problems of development, modernization, and social change in terms of a general theoretical framework. Comparative analysis of trends of development in the West, the Soviet Union and Eastern Europe, and the Third World nations. (6 credits)

SOCIOLOGY C323
Economy and Society

Prerequisite: SOCI C200 or C220. Examination of the ways in which economic activities are legitimated or otherwise affected by social norms and values, and of the ways in which various social systems react to the strains created by the accommodation of new technology and of new industrial organizations. (3 credits)

SOCIOLOGY C324
Sociology of Economic Development

Prerequisite: SOCI C200 or C220. Consideration of theories and models of economic development. Attention given to the role of foreign aid programmes, the role of local political elites and self-reliance as factors in economic development. (3 credits)

SOCIOLOGY C325
Social Change

Prerequisite: SOCI C200 or C220. Examination of the sources, mechanisms, and consequences of social and cultural change; analysis of classical and contemporary theories of change as well as important empirical studies. (3 credits)

SOCIOLOGY C330
Social Class and Structured Inequality

Prerequisite: SOCI C200 or C220 or C230. The dynamics of social stratification and differentiation, including economic distinctions and their consequences, social status, power and mobility. Emphasis upon Canadian society. (6 credits)

SOCIOLOGY C335
Collective Behaviour and Social Movements

Prerequisite: SOCI C200. Characteristics of collective behaviour, its origin, development, and relationship to institutionalized social structures. The nature and function of social movements, their life histories and their relationship to the larger society. (6 credits)

SOCIOLOGY C337
Sociology of Religion

Prerequisite: SOCI C200 or RELI C213. Analysis of religious experience, beliefs, ritual, and organizations. Consideration of both traditional and contemporary religious institutions as sources of meanings and values which may either support or subvert ongoing social structures. Attention also given to how non-religious situations generate religious movements and conversely, how religious situations generate non-religious (e.g. social, economic, political) movements. (6 credits)

SOCIOLOGY C340
Complex Organizations

Prerequisite: SOCI C200 or C220. Examination of the nature and characteristics of large and complex organizations, their internal structures and relationships to their social environments. (6 credits)

SOCIOLOGY C342
Industry and Society

Prerequisite: SOCI C200 or C220. Analysis of the nature of change and its consequences in advanced industrialized societies.

Special attention will be directed toward corporate structures, the labour movement, the function and meaning of work, leisure, changes in societal structure and the exercise of power. (6 credits)

SOCIOLOGY C343
Sociology of Work

Prerequisite: SOCI C200 or C220. Examination of the structural characteristics of work in modern industrial society. Consideration of the spectrum of occupations and professions; the relationships between work and identity in contemporary society. Special attention placed on the issues of conflict and alienation in work and the impact of work on other aspects of social structure. (6 credits)

SOCIOLOGY C344
Sociology of Leisure

Prerequisite: SOCI C200 or C220. The effects of social, economic and political institutions upon the structure and use of leisure time. Emphasis upon historical changes and the implications of alienation, anomy and inequality. (3 credits)

SOCIOLOGY C345
Sociology of Labour Movements

Prerequisite: SOCI C200. Origins and development of labour movements; contemporary characteristics of union organizations within the context of their social, political and economic environments. Emphasis upon Canada and Quebec. (3 credits)

SOCIOLOGY C350
Sociology of Urban Regions I

Prerequisite: SOCI C200 or C220 or C230. Analysis of the historical development of the city, focusing on the pre-industrial city from a cross-cultural perspective. (3 credits)

SOCIOLOGY C351
Sociology of Urban Regions II

Prerequisite: SOCI C200 or C220 or C230. Analysis of the growth of urbanization in North America, concentrating on the social and spatial organization of Canadian cities, especially Montreal. (3 credits)

SOCIOLOGY C353
Community Studies I

Prerequisite: SOCI C200 or C220 or C230. The study of locale. The major theoretical approaches used in the study of locale are examined in terms of their content and methodological implications. Special attention is given to the social system and structuralist approaches. (3 credits)

SOCIOLOGY C354
Community Studies II

Prerequisite: SOCI C200 or C220 or C230. Analysis of selected studies of Canadian Communities in terms of one or more theoretical approaches current in the field. Some course materials are available only in French. (3 credits)

SOCIOLOGY C357
Population and Society

Prerequisite: SOCI C200. A critical analysis of population dynamics including an examination of theories concerning the population-resources problem (e.g. Malthus and Marx). Emphasis is given to the relation between ideology and methodology in population study. (3 credits)

SOCIOLOGY C358
Social Demography

Prerequisite: SOCI C200 or C210. Basic principles, issues, data and methods of population study. Primary focus on social factors which affect demographic processes and the ways in which demographic change is related to social structure and social change. Consideration of the basic components of demographic analysis: fertility, mortality, and migration. (3 credits)

SOCIOLOGY C360
Crime and Justice in Society

Prerequisite: SOCI C200 or C260 or C261. Study of the theories and methods developed in criminology and penology since the 19th century. Definitions of crime and the interplay between individual autonomy and community controls are analyzed. (6 credits)

SOCIOLOGY C370
Self and Society

Prerequisite: SOCI C200. Study of the basic concepts and theories regarding social definitions of the self. Emphasis on ideas regarding personality, motivation, and interpersonal attitudes viewed in terms of the interplay between actors and social structures. (6 credits)

SOCIOLOGY C372
Sociology of Sex Roles

Prerequisite: SOCI C200. Examination of the social status and roles of men and women in society. Use is made of comparative, historical, and empirical research. Particular attention is paid to the Marxist, feminist, and socialist-feminist theoretical perspectives on the patriarchal nature of society. (6 credits)

SOCIOLOGY C373
Sociology of Childhood

Prerequisite: SOCI C200. Comparative and historical approach to the study of the status and role of the child in the family and in the larger society. Emphasis on the sociological aspect of childhood in modern industrial societies. (3 credits)

SOCIOLOGY C377
Sociology of Education

Prerequisite: SOCI C200. Analysis of the social structures within a formal education system. Trends in education are examined in relation to broader patterns of social change. (3 credits)

SOCIOLOGY C380
Social Movements in Quebec

Prerequisite: SOCI C200 or C280. Analysis of historically significant movements for social change in Quebec. (6 credits)

SOCIOLOGY C382
Intergroup Relations in Canada

Prerequisite: SOCI C200 or C230 or C282. Canadian ethnic group phenomena are examined in the light of theories of intergroup relations. The groups include Indians, Inuit, Blacks, Jews, and English and French speakers. The mosaic theory of Canadian ethnic relations will be considered. (3 credits)

SOCIOLOGY C390
Selected Topics in Sociology I

Prerequisite: One sociology course at the 200 level. Study of a special topic in sociology with the requirement of a research paper. (3 credits)

SOCIOLOGY C391
Selected Topics in Sociology II

Prerequisite: One sociology course at the 200 level. Study of a special topic in sociology with the requirement of a research paper. (3 credits)

SOCIOLOGY C392
Selected Topics in Sociology III

Prerequisite: One sociology course at the 200 level. Study of a special topic in sociology with the requirement of a research paper. (3 credits)

SOCIOLOGY C393
Selected Topics in Sociology IV

Prerequisite: One sociology course at the 200 level. Study of a special topic in sociology with the requirement of a research paper. (3 credits)

SOCIOLOGY C400
Contemporary Sociological Theory

Prerequisites: SOCI C300. Critical examination of contemporary sociological theories against the background provided by Marx, Durkheim, and Weber. The theories are analyzed in terms of their critical assumptions, conceptual distinctions, methodological features, and ethical implications. Theoretical works are chosen to represent a range of approaches to sociology, such as positivism, functionalism, conflict theory, structuralism, critical theory, symbolic interactionism and phenomenology. (6 credits)

SOCIOLOGY C401
The History of Social Thought

Prerequisite: SOCI C300. Overview of the various ideas and schools of thought which attempt to explain the organization, development, and change of various aspects of human societies. Emphasis on the philosophical underpinnings of the discipline of Sociology. The time span ranges from ancient Greek social thought to early 19th century European thought in which sociology was founded. (6 credits)

SOCIOLOGY C402
Topical Seminar in Sociological Theory I

Prerequisite: SOCI C300 and permission of the Department. Intensive critical analysis of either (a) the major writings of a particular theorist, or (b) a major problem or issue in sociological theory. (3 credits)

SOCIOLOGY C403
Topical Seminar in Sociological Theory II

Prerequisite: SOCI C300 and permission of the Department. Intensive critical analysis of either (a) the major writings of a particular theorist, or (b) a major problem or issue in sociological theory. (3 credits)

SOCIOLOGY C405
Sociology of Knowledge

Prerequisite: SOCI C300. Examination of the relation of ideas and symbolic frames of reference to social structure. Emphasis on social factors bearing on claims to truth and validity and upon definitions of social reality. (6 credits)

SOCIOLOGY C409
Honours Seminar

Prerequisite: SOCI C410 and permission of the Honours Adviser. Consideration of methodological and theoretical ideas related to the formulation of an Honours research proposal. Second term work involves completion of research and writing of an Honours paper. (6 credits)

SOCIOLOGY C410
Research Design and Analysis

Prerequisite: SOCI C200 and C210. Study of quantitative methods of data collection and analysis. Topics include: experimental and quasi-experimental design, principles of measurement, survey design, secondary data sources, techniques of multivariate analysis, and interpretation. (6 credits)

SOCIOLOGY C411
Logic of Sociological Inquiry

Prerequisite: SOCI C200 and 6 credits of courses from Group 1. Consideration of the interaction between sociological theory and empirical research. Critical study of the conceptual bases for truth-claims within the major sociological perspectives. (3 credits)

SOCIOLOGY C415
Topical Seminar in Research Methods

Prerequisite: SOCI C200 and 6 credits of courses from Group 1. Advanced study of a selected topic or type of research method in sociology. (3 credits)

SOCIOLOGY C423
Social Issues and Public Policy

Prerequisite: SOCI C200 and one 300-level course from Group 2. Analysis of selected social problems considered in relation to public policies promoted by government, especially in Canada. The social problems included are related to ecology, economic development, social and value change, and political structures. Attention is also given to the expansion of the functions of the modern state. (6 credits)

SOCIOLOGY C426
Trans-National Power and Interdependency

Prerequisite: SOCI C200; and C220 or C320. Systematic and critical review of the emergence of new forms of supra-national organizations. Special attention is given to dimensions of power and interdependency among societies. (6 credits)

SOCIOLOGY C435
Political Sociology

Prerequisite: SOCI C200; and C320 or C330 or C335. The social structure of political institutions, parties, and movements is analyzed in relation to other social and class structure. The social and economic correlates of political action and attitudes are examined as well as the process of political socialization. (6 credits)

SOCIOLOGY C450
Seminar in Urban and Metropolitan Studies

Prerequisite: SOCI C200 and one course from Group 5. Intensive study of selected theories and monographs dealing with aspects of urbanization. (6 credits)

SOCIOLOGY C457
Selected Topics in Population

Prerequisite: SOCI C200 or C210; and C357 or C358. Selected topics of importance in population studies are examined in detail. Students are required to submit a research paper on a significant demographic problem. (3 credits)

SOCIOLOGY C460
Law and Society

Prerequisite: SOCI C200; and C260 or C360. Study of the legal system as an institutionalized system of social control, using historical and comparative data. Special attention is given to the study of law and legal organizations in contemporary society in relation to other areas of sociological inquiry, especially social change, conflict, and decision-making. (6 credits)

SOCIOLOGY C480
Topical Seminar in Quebec Society

Prerequisite: SOCI C200 and C280. Advanced study of a selected topic concerning Quebec society. (3 credits)

SOCIOLOGY C482
Topical Seminar in Canadian Society

Prerequisite: SOCI C200 and C282. Advanced study of a selected topic concerning Canadian society. (3 credits)

SOCIOLOGY C485
Topical Seminar in Area Studies

Prerequisite: SOCI C200; and C320 or C324. Advanced study of a selected topic concerned with international changes, planning or development. (3 credits)

SOCIOLOGY C490
Topical Seminar in Sociology I

Prerequisite: SOCI C200 and one sociology course at the 300 level. Intensive, critical examination of a special topic or problem in sociology, with the requirement of a research paper. (3 credits)

SOCIOLOGY C491
Topical Seminar in Sociology II

Students who have received credit for SOCI C490 may register under SOCI C491. (3 credits)

SOCIOLOGY C492
Topical Seminar in Sociology III

Prerequisite: SOCI C200 and one sociology course at the 300 level. Intensive, critical examination of a special topic or problem in sociology, with the requirement of a research paper. (3 credits)

SOCIOLOGY C493
Topical Seminar in Sociology IV

Students who have received credit for SOCI C492 may register under SOCI C493. (3 credits)

SOCIOLOGY C494
Topical Seminar in Sociology V

Prerequisite: SOCI C200 and one sociology course at the 300 level. Intensive, critical examination of a special topic or problem in sociology, with the requirement of a research paper. (3 credits)

SOCIOLOGY C495
Topical Seminar in Sociology VI

Students who have received credit for SOCI C494 may register under SOCI C495. (3 credits)

ANTHROPOLOGY

60 BA Honours in Anthropology

6 ANTH C211[6]*
6 LING C200[6]
15 Chosen from ANTH C321[3], C322[3], C362[6], C364[3], C365[3], C367[3], C368[6], C394[3], C395[3]
9 Chosen from ANTH C301[3], C302[3], C325[3], C369[6], C397[3], C398[3]
18 Chosen from ANTH C426[6], C434[6], C459[6], C460[6], C469[6], C494[6]
6 ANTH C499[6]

**Students exempted from ANTH C211[6] are required to take 6 credits among Anthropology 300 level courses*

42 BA Major in Anthropology

6 ANTH C211[6]*
12 Chosen from ANTH C321[3], C322[3], C362[6], C364[3], C365[3], C367[3], C368[6], C394[3], C395[3]
6 Chosen from ANTH C301[3], C302[3], C325[3], C369[6], C397[3], C398[3]
18 Chosen from ANTH C426[6], C434[6], C459[6], C460[6], C469[6], C494[6]

**Students exempted from ANTH C211[6] are required to take 6 credits among Anthropology 300 level courses*

30 Minor in Anthropology

6 ANTH C211[6]*
12 Chosen from ANTH C321[3], C322[3], C362[6], C364[3], C365[3], C367[3], C368[6], C394[3], C395[3]
6 Chosen from ANTH C301[3], C302[3], C325[3], C369[6], C397[3], C398[3]
6 Chosen from ANTH C426[6], C434[6], C459[6], C460[6], C469[6], C494[6]

**Students exempted from ANTH C211[6] are required to take 6 credits among Anthropology 300 level courses*

COURSES

ANTHROPOLOGY C211
Introduction to Anthropology

Group A: Area courses

ANTHROPOLOGY C321
Stateless Societies in Africa

ANTHROPOLOGY C322
Early States and New Nations of Africa

ANTHROPOLOGY C362
Aboriginal Indian and Inuit Social Organizations

ANTHROPOLOGY C364
Peoples and Cultures of India

ANTHROPOLOGY C365
Chinese Culture and Society

ANTHROPOLOGY C367
Peoples and Cultures of Southeast Asia

ANTHROPOLOGY C368
Peoples and Cultures of the Caribbean

ANTHROPOLOGY C394
Topics in Ethnography I

ANTHROPOLOGY C395
Topics in Ethnography II

Group B: Topical courses

ANTHROPOLOGY C301
Oral Literature

ANTHROPOLOGY C302
Art, Aesthetics and Anthropology

ANTHROPOLOGY C325
Magic, Science and Religion

ANTHROPOLOGY C369
Anthropology of Dependency

ANTHROPOLOGY C397
Topics in Culture and Society I

ANTHROPOLOGY C398
Topics in Culture and Society II

Group C: Theory

ANTHROPOLOGY C426
Symbolic Anthropology

ANTHROPOLOGY C434
Anthropological Theories

ANTHROPOLOGY C459
Political Anthropology

ANTHROPOLOGY C460
Social Anthropology

ANTHROPOLOGY C469
Economic Anthropology

ANTHROPOLOGY C494
New Topics in Anthropology

ANTHROPOLOGY C499
Honours Essay

Due to the renumbering of Anthropology courses students should consult Section 200 for a list of equivalent courses.

ANTHROPOLOGY C211
Introduction to Anthropology

An introduction to the fields of Anthropology: facts and ideas about the nature of the human species and its past; and the search for the causes of social and cultural differences and similarities. This course deals with the diversity of languages, of family and marriage systems, religious beliefs and rituals, political and economic organizations. Examples are drawn from past and present societies, from western and non-western cultures. (6 credits)

ANTHROPOLOGY C301
Oral Literature

Prerequisite: Anthropology C211 or equivalent or permission of the Department. This course will acquaint students with various types of oral poetry, historical tales, myths and personal narratives from indigenous cultures of Africa, Oceania and North America. The discussion of these materials will focus on contemporary anthropological issues, such as: 1) The various modes of conceptualizing time and historical truth, man's relation to nature and to his fellow man; 2) The reliability of narrator-informants as spokesmen for their own cultures. Translations of transcribed primary sources are supplemented by background lectures on the cultures studied. (3 credits)

ANTHROPOLOGY C302
Art, Aesthetics and Anthropology

Prerequisite: Anthropology C211 or equivalent or permission of the Department. This course introduces students to painting, sculpture, costume decoration, masks, music and dance in different non-industrial cultural settings. Readings and lectures focus on contrasting values concerning beauty in various cultural and historical settings. The ways in which different cultures have expressed and explained their aesthetic values will be presented alongside interpretations by anthropologists and art historians. The course will employ slides and readings. Students will attend films and possibly local galleries whenever they show relevant materials. (3 credits)

ANTHROPOLOGY C321
The Stateless Societies of Africa

Prerequisite: Anthropology C211 or equivalent or permission of the Department. The course will survey stateless societies spread across the Sudan into Nigeria. The course will outline hominid evolution in Eastern and Southern Africa and sketch the outlines of African prehistory as reconstructed by archeologists. This will be followed by an investigation of such present-day hunters and gatherers as the Kalahari Bushmen and the Ituri forest Pygmies. The bulk of the course will study a number of stateless societies in the area, such as the pastoral Nuer and the agricultural Tiv. Particular emphasis will be given to the ways in which

kinship and marriage organize social, political and economic relations and preserve social order in these cultures without institutionalized chieftainship. (3 credits)

ANTHROPOLOGY C322
Early States and New Nations of Africa

Prerequisite: Anthropology C211 or equivalent or permission of the Department. A survey of chiefdoms and early states in Africa, and of the response of Africa's peoples to colonial rule and new nationhood. (3 credits)

ANTHROPOLOGY C325
Magic, Science and Religion

Prerequisite: Anthropology C211 or Religion C211 or C213 or permission of the Department. A comparative study of beliefs, ritual and ceremony in tribal, peasant and modern societies. Consideration of anthropological theories regarding the development and functions of supernaturalistic and naturalistic modes of thought. (3 credits)

ANTHROPOLOGY C362
Aboriginal Indian and Inuit Social Organizations

Prerequisite: Anthropology C211 or equivalent or permission of the Department. Description and analysis of the diverse aboriginal forms of social and political organization of North American Indian and Inuit populations. Archaeology is briefly considered to ascertain whether it may provide explanations for the different levels of societal complexity which separated these cultures from each other at the time of first contact with Europeans. (6 credits)
NOTE: This course may be taken for credits in the Canadian Studies Programme.

ANTHROPOLOGY C364
Peoples and Cultures of India

Prerequisite: Anthropology C211 or equivalent or permission of the Department. This course will deal with the development of these cultures from their earliest manifestation to the present. Emphasis will be upon the interrelations of techno-economic, social structural and ideological aspects, with considerable attention to recent and prospective changes. (3 credits)
NOTE: This course may be taken for credits in the Asian Studies Programme.

ANTHROPOLOGY C365
Chinese Culture and Society

Prerequisite: Anthropology C211 or equivalent or permission of the Department. This course will deal with the development of Chinese culture from its earliest manifestation to the present. Emphasis will be upon the interrelations of techno-economic, social structural and ideological aspects, with considerable attention to recent and prospective changes. (3 credits)
NOTE: This course may be taken for credits in the Asian Studies Programme.

ANTHROPOLOGY C367
Peoples and Cultures of Southeast Asia

Prerequisite: Anthropology C211 or equivalent or permission of the Department. This course will deal with the development of these cultures from their earliest manifestation to the present. Emphasis will be upon the interrelations of techno-economic, social structural and ideological aspects, with considerable attention to recent and prospective changes. (3 credits)
NOTE: This course may be taken in the Asian Studies Programme.

ANTHROPOLOGY C368
Peoples and Cultures of the Caribbean

Prerequisite: Anthropology C211 or equivalent or permission of the Department. A comparative study of Caribbean peoples and cultures, their history in colonization and slavery, their current similarities in diversity. (6 credits)

ANTHROPOLOGY C369
Anthropology of Dependency

Prerequisite: Anthropology C211 or equivalent or permission of the Department. This course examines the phenomenon of dependency in terms of economic, political and social linkages which may exist between economically advanced and traditional societies. An analysis of the structure of dependency will be followed by discussions of its effects upon traditional cultures. Case study material will be drawn from the literature on tribal and peasant cultures as well as from literature on those Canadian communities whose economies have remained at the subsistence level. (6 credits)

ANTHROPOLOGY C394
Topics in Ethnography I

Prerequisite: Anthropology C211 or equivalent or permission of the Department. The area studies will vary yearly, reflecting student interests and requests. This course, like other courses of Group A offers a presentation of cultural and societal forms in a given area. (3 credits)

ANTHROPOLOGY C395
Topics in Ethnography II

Prerequisite: Anthropology C211 or equivalent or permission of the Department. The area studied will vary yearly, reflecting students' interests and requests. This course, like other courses of Group A offers a presentation of cultural and societal forms in a given area. (3 credits)

ANTHROPOLOGY C397
Topics in Culture and Society I

Prerequisite: Anthropology C211 or equivalent or permission of the Department. The topic will vary yearly, reflecting students' interests. This course, like other courses of Group B, offers the analysis of aspects of social life in a comparative perspective, drawing examples from a world sample of societies or cultures. (3 credits)

ANTHROPOLOGY C398
Topics in Culture and Society II

Prerequisite: Anthropology C211 or equivalent or permission of the Department. The topic will vary yearly, reflecting students' interests. This course, like other courses of Group B, offers an analysis of aspects of social life in a comparative perspective, drawing examples from a world sample of societies or cultures. (3 credits)

ANTHROPOLOGY C426
Symbolic Anthropology

Prerequisite: 12 credits in 300-level Anthropology or permission of the Department. Comparative examination of the interaction between symbols systems and other components of society (e.g. political and economic). Religious ceremonies, rituals, rites of passage, myths, folk-tales, etiquette and social conventions (from both western and non-western societies) will first be analyzed as systems of communication. The effects of these phenomena upon the continuity of social structures will then be examined. Important publications by the major writers in this field will be closely examined: Lévi-Strauss, Leach, Turner, Geertz, Sperber, Althusser, Baudrillard and Barthes. (6 credits)

ANTHROPOLOGY C434
Anthropological Theories

Prerequisite: 12 credits in 300-level Anthropology or permission of the Department. A study of the major schools of thought in social-cultural anthropology, such as functionalism, structuralism, the American historical school, evolutionism, cultural materialism, Marxism and symbolic analysis. Important publications by the major writers in these fields will be closely examined. (6 credits)

ANTHROPOLOGY C459
Political Anthropology

Prerequisite: 12 credits in 300-level Anthropology or permission of the Department. An examination of political process and political organization in cross-cultural perspective. Part I considers the differing approaches to political organization and processes, leadership, power and authority in non-western cultures of various degrees of complexity. Part 2 analyzes social conflict in relation to politics, social continuity and social change. (6 credits)

ANTHROPOLOGY C460
Social Anthropology

Prerequisite: 12 credits in 300-level Anthropology or permission of the Department. The first term will cover a range of techniques for analyzing descent and marriage in societies where these are the most important and all-encompassing social relations. Examples of systems of kinship nomenclature, methods of reckoning descent and rules of marriage will be chosen from different societies throughout the world. The student will be introduced to a series of important anthropological debates concerning the relative significance of descent and marriage in these systems. During the second term the focus will shift to cultures in which the various functions of the bonds of kinship and marriage have been taken over by government, markets, law courts and other institutions. (6 credits)

ANTHROPOLOGY C469
Economic Anthropology

Prerequisite: 12 credits in 300-level Anthropology or permission of the Department. The study of the interrelations between production, exchange and apportionment of goods and services in non-industrial societies. Conditions for the replication of such economic systems over time. Materials are drawn from societies in Africa, in Asia, in pre-capitalist Europe, in native America and in the Pacific culture areas. The first term is devoted to a review of theories regarding the nature of economics within non-industrial societies and methods used in the analysis of their modes of production. The second term is concerned with selected case-studies. The course concludes with an appraisal of economic life in non-industrial societies and of the modifications brought to the human experience by capitalism. (6 credits)

ANTHROPOLOGY C494
New Topics in Anthropology

Prerequisite: 12 credits in Anthropology 300-level courses or permission of the Department. Subject matter will vary yearly to take advantage of the special aptitudes of the instructor. As in every 400-level course, this course is theoretically oriented and reflects current trends in Anthropology. (6 credits)

ANTHROPOLOGY C499
Honours Essay

Prerequisite: Third year standing in Honours Anthropology. Under the supervision of an Anthropology staff member, the student will prepare an Honours essay on a subject chosen in consultation with, and approved by, the professor. (6 credits)

31.31 Teaching of English as a Second Language

Director
N. FARGO BELMORE, *Professor*

Professor
R. C. YORKEY

Associate Professors
B. BARKMAN
J. D. PALMER

Assistant Professors
P. ACHESON
P. LIGHTBOWN
R. MACKAY
G. S. NEWSHAM
B. M. PETRIE
V. A. SHARMA
B. M. SMITH

Lecturer
J. CONNELLY

PROGRAMMES

CURRICULUM FOR THE DEGREE OF BACHELOR OF EDUCATION (English as a Second Language)

Elementary School Option
Secondary School Option

The Centre for the Teaching of English as a Second Language offers the Degree of Bachelor of Education (English as a Second Language).

Admission Requirements (B.Ed.)

General admission requirements are listed in § 13 (Admission Regulations). Specific requirements are as follows:

1. Satisfactory completion of a two-year pre-university programme in a CEGEP or equivalent. Within the programme the students will be required to have successfully completed the equivalent of four semester courses in English.
2. Owing to the specialized nature of this programme, no more than 30 pro tanto credits will normally be permitted, and the University reserves the right to determine which ones these should be.
3. Candidates must demonstrate competence in spoken and written English. They may be tested formally as well as through the normal admissions procedures.
4. Reasonable fluency in French is necessary for students who will teach in the French school system.

Degree Requirements

Definition of Credit:

Up to and including the academic year 1973-74, degree programmes have been expressed in terms of courses, with one credit being applied to a "full-course" (normally two terms) and one half-credit being applied to a "half-course" (normally one term).

Starting in 1974-75, in accordance with the recommendations of the Quebec Council of Universities, the credit-base was modified to take into account the total activity of the student. Students preparing for the degree of Bachelor of Education (English as a Second Language) take a minimum of 90 credits. Each credit represents, for the average student, a minimum of 45 hours of work spread across lectures, conferences, laboratories, studio or practice-periods, test, examinations and personal work.

90 BEd (English As a Second Language)

36*

a) *Elementary Option*
TESL C211[3], C221[3], C231[3], C318[3], C322[3], C341[3], C382[3], C411[3], C415[3], C422[3], C482[6]

b) *Secondary Option*
TESL C211[3], C221[3], C231[3], C318[3], C323[3], C341[3], C383[3], C412[3], C415[3], C423[3], C483[6]

c) *Adult Option (not offered 1979-80)*
TESL C211[3], C221[3], C231[3], C318[3], C323[3], C341[3], C384[3], C412[3], C415[3], C423[3], C484[6]

12 Chosen from TESL C201[3], C351[3], C431[3], C434[3], C442[3], C491[3], C492[3], LING C200[6], C431[6]

18 EDUC C201[6], C210[6], C230[3], C445[3]

6 ENGL C211[6] or C398[6]

6 ENGLISH literature to be approved by the Centre

12 Elective credits from any department

* *Students are advised to divide the required TESL courses by year as follows:*

Year I	TESL C211[3], C221[3], C231[3],
Year II	TESL C318[3], C322[3] or C323[3], C341[3], C382[3] or C383[3] or C384[3]
Year III	TESL C411[3] or C412[3], C415[3], C422[3] or C423[3], C482[6] or C483[6] or C484[6]

NOTE: Those possessing the degree of Bachelor of Education (English as a Second Language) Elementary or Secondary option will obtain a specialist teaching permit from the Quebec Ministry of Education.

CERTIFICAT D'ENSEIGNEMENT DE L'ANGLAIS, LANGUE SECONDE (Programme intensif de perfectionnement)

The Centre for the Teaching of English as a Second Language offers a 30 credit programme leading to the Certificat d'enseignement de l'anglais, langue seconde au niveau élémentaire et secondaire.

Successful candidates who are certified school teachers will also obtain a specialist teaching permit from the Quebec Ministry of Education.

This programme is part of the Ministry of Education's emphasis on the improvement of second language teaching.

Admission Requirements

NOTE: The elementary level is restricted to those individuals who hold an elementary teaching licence. The secondary level is restricted to those holding a secondary licence.

Other applicants may be considered for admission to the programme on the basis of their experience and additional criteria deemed appropriate by the Centre. However such students may not be eligible for a Certificate of Specialization granted by the Ministry of Education.

Courses

Au niveau élémentaire

ESL C203[6], ESL C204[3], TESL C221[3], TESL C322[3], TESL C231[3], TESL C411[3], TESL C415[3], TESL C422[3], TESL C479[3]

Au niveau secondaire

ESL C203[6], TESL C221[3], C323[3], C231[3], C415[3], C318[3], C341[3] or C412[3], C423[3], C479[3].

A temps partiel

Elémentaire

ENGL C211[6], TESL C221[3], C231[6], C322[6], C341[3], C411[3], C415[3], C422[3], C479[3].

Secondaire

ENGL C211[6], TESL C221[3], C231[3], C318[3], C323[3], C341[3] or C412[3], C415[3], C423[3], C479[3].

CERTIFICATE IN THE TEACHING OF ENGLISH AS A SECOND LANGUAGE

Admission Requirements

1. Candidates must have an appropriate teacher's certificate or the equivalent of one year's experience as a full-time language teacher.
2. Candidates must demonstrate competence in spoken and written English. They may be tested formally as well as through the normal admissions procedures.
3. Reasonable fluency in French is necessary for students who will teach in the French school system.
4. Candidates who meet these admission requirements but who have not taught English as a second language in a classroom for a minimum of 400 hours should arrange to include a practice teaching or internship course in their programme.

NOTE: Candidates who wish to obtain *le certificat de spécialization* must have a teaching diploma recognized by Quebec, at either the elementary or secondary levels. In Quebec, the holder of the Certificate is granted one year's *scolarité* (D.G.E.E.S. Adm. 73-54 sec. 1.1.1.6). Upon successful completion of this programme, it is the responsibility of the individual to apply to the TESL Centre for *le certificat de spécialization.*

Elementary, Secondary or Adult Options

This is a 30-credit programme comprising courses in the Teaching of English as a Second Language and English. It is offered in the day and evening divisions and the special summer session. The 30 credits which comprise this certificate are an integral part of the 90-credit requirement for the BEd (TESL) degree.

a) *Elementary Option*
- 6 ENGL C211[6] or C398[6]
- 6 English Literature to be approved by the Centre
- 18 TESL C211[3], C221[3], C231[3], C322[3], C415[3], C422[3]

b) *Secondary Option*
- 6 ENGL C211[6] or C398[6]
- 6 English Literature to be approved by the Centre
- 18 TESL C211[3], C221[3], C231[3], C323[3], C415[3], C423[3]

c) *Adult Option:* This option will not be offered in 1979-80.

NOTE: Upon admission, students may be granted exemptions from courses in TESL programmes if they have completed equivalent work at the university level.

Replacement for these exemptions must be made in accordance with the guidelines established by the TESL Centre and approved by the University. Copies of these guidelines may be obtained in the TESL Centre.

All TESL courses may be regarded as courses in the Humanities or in the Social Sciences.

ESL 100
English Language

A course for students whose first language is other than English and who require additional training in order to achieve a level of expression acceptable to the university. The focus of the course is primarily on the development and improvement of writing skills. All candidates will be tested prior to entry. (6 credits may be applied to certain programmes only) *NOTE A/See § 200.1*

ESL C201
English Language and Composition

Prerequisite: Successful completion of ESL 100 or placement by the CELD test. This course is designed for non-English students who have completed secondary school or its equivalent in a language other than English. The course encourages the development of effective written communication and improved reading comprehension so that the student may perform competently in his other university work. (6 credits) *NOTE A/See § 200.1*

ESL C203
Effective Communication I

This course is offered only to students enrolled in the programme, *Certificat d'enseignement de l'anglais, langue seconde (programme intensif de perfectionnement).* The aim of the course is to develop a high degree of proficiency in both oral communication, and aural and reading comprehension. (6 credits). *NOTE A/See § 200.1*

ESL C204
Effective Communication II

This course is offered only to students enrolled in the programme, *Certificat d'enseignement de l'anglais, langue seconde (programme intensif de perfectionnement).* The aim of the course is to encourage the development of clear, effective writing. Aspects of styles such as appropriate levels of usage, choice of diction, and tone will be studied. (3 credits) *NOTE A/See § 200.1*

TESL C201
Speech

This is an introductory course for non-native speakers of English who have difficulty with the English sound system. It is a practical application of the knowledge of the sound, stress, intonation, and rhythm patterns of English in effective oral communication. (3 credits) *NOTE A/See § 200.1*

TESL C211
Introduction to Language and Applied Linguistics

This course is an introduction to the study of language and linguistics. The course includes an overview of the nature and function of communication; speech and writing; socio-linguistics, psycho-linguistics, historical and descriptive linguistics; and the relevance and application of these areas of scholarship to second-language teaching. (3 credits) *NOTE A/See § 200.1*

TESL C221
Comparative Phonetics

This course is for students who intend to be English teachers. It teaches the phonetic and phonemic features of English and the methodology of corrective practice. A comparison of the phonological systems of English and French is emphasized. A proficiency test of spoken English will be administered at the beginning of the course. (3 credits) *NOTE A/See § 200.1*

TESL C231
Modern English Grammar

This course is for students who intend to be English teachers. The course includes a review of the analytical grammar of English, both traditional and modern, with emphasis on how language is used to express meaning, and a detailed description of English morphology and syntax. A proficiency test of written English will be administered at the beginning of the course. (3 credits) *NOTE A/See § 200.1*

TESL C318
The Teaching of Reading and Writing

Prerequisite: 9 TESL credits. This course analyzes the relation between speech and writing, and surveys the structure and function of written English. Techniques and procedures for teaching reading and writing skills are studied and demonstrated, and current ESL materials are evaluated. Students are expected to prepare specimen materials for developing reading and writing skills in the classroom. (3 credits) *NOTE A/See § 200.1*

TESL C322
Methodology I — Elementary

Prerequisite: TESL C221 and TESL C231, and admission to the Certificate or BEd programme, or permission of the Department. This course considers current theory of applied linguistics and the methods and materials appropriate to ESL instruction in elementary schools. Emphasis is on teaching the spoken language. The principles of selection and sequencing, and the technique of presentation, practice, and production are introduced. The preparation of specimen instructional materials is required. (3 credits) *NOTE A/See § 200.1*

TESL C323
Methodology I — Secondary

Prerequisite: TESL C221 and TESL C231, and admission to the Certificate or BEd programme, or permission of the Department. This course considers current theory of applied linguistics and the methods and materials appropriate to ESL instruction in secondary schools. Emphasis is on teaching the spoken language. The principles of selection and sequencing, and the techniques of presentation, practice, and production are introduced. The preparation of specimen instructional materials is required. (3 credits) *NOTE A/See § 200.1*

TESL C341
Language Acquisition

Prerequisite: TESL C221 and C231. This course analyzes the development processes in native language acquisition. The psycho-linguistic factors involved in the child's conversion of language input into linguistic performance and their implication for second-language learning are studied. (3 credits) *NOTE A/See § 200.1*

TESL C351
History and Development of the English Language

Prerequisite: TESL C221 and C231. A study of the morphological, phonological, syntactical and semantic changes that have taken place from Proto-Indo-European to the present. Students are required to do elementary linguistic analyses of texts from different stages in the development of the language. (3 credits) *NOTE A/See § 200.1*

TESL C382
Practice-Teaching and Observation—Elementary

Prerequisite: TESL C322 previously or concurrently. This course introduces the inexperienced teacher to the practice and procedures of teaching English as a second language. Practice includes lesson planning, classroom management, and techniques for teaching language skills. Micro-teaching, peer-teaching, and mirror-viewing are essential requirements. Students who register for this course will practise at the elementary level. (3 credits) *NOTE A/See § 200.1*

TESL C383
Practice-Teaching and Observation—Secondary

Prerequisite: TESL C323 previously or concurrently. This course introduces the inexperienced teacher to the practice and procedures of teaching English as a second language. Practice includes lesson planning, classroom management, and techniques for teaching language skills. Micro-teaching, peer-teaching, and mirror-viewing are essential requirements. Students who register for this course will practise at the secondary level. (3 credits) *NOTE A/See § 200.1*

TESL C384
Practice-Teaching and Observation—Adult

Prerequisite: TESL C323. This course introduces the inexperienced teacher to the practice and procedures of teaching English as a second language. Practice includes lesson planning, classroom management, and techniques for teaching language skills. Micro-teaching, peer-teaching, and mirror-viewing are essential requirements. Students who register for this course will practise at the adult level. (3 credits) *NOTE A/See § 200.1*

TESL C411
Audio-Visual Aids in ESL—Elementary

Prerequisite: TESL C322 previously or concurrently. This course examines audio-visual resources and their effective use in second-language teaching. It familiarizes the student with the use of technical apparatus and with the effective use of simple teaching aids with particular regard for the needs of elementary students. Production of appropriate classroom materials is required. (3 credits) *NOTE A/See § 200.1*

TESL C412
Audio-Visual Aids in ESL—Secondary

Prerequisite: TESL C323 previously or concurrently. This course examines audio-visual resources and their effective use in second-language teaching. It familiarizes the student with the use of technical apparatus and the effective use of simple teaching aids for secondary and adult students. Production of appropriate classroom materials is required. (3 credits) *NOTE A/See § 200.1*

TESL C415
Testing and Evaluation

Prerequisite: TESL C322 or C323. An introduction to the general purposes and methods of language testing with a description of the chief characteristics of sound educational measures. The course examines the processes involved in constructing and administering ESL tests designed to evaluate proficiency in the four major skills: listening, speaking, reading and writing. (3 credits) *NOTE A/See § 200.1*

TESL C422
Methodology II—Elementary

Prerequisite: TESL C322. This course introduces the criteria for assessment and adaptation of methods and materials. Emphasis is on the written language. Students are expected to produce materials and lesson plans appropriate to the elementary school level. (3 credits) *NOTE A/See § 200.1*

TESL C423
Methodology II—Secondary

Prerequisite: TESL C323. This course introduces the criteria for assessment and adaptation of methods and materials. Emphasis is on the written language. Students are expected to produce materials and lesson plans appropriate to the secondary school level (3 credits) *NOTE A/See § 200.1*

TESL C431
Grammatical Theory

Prerequisite: TESL C231. This course surveys current theories of grammar and their influence in applied linguistics, with further studies in generative-transformational grammar and generative semantics. The importance of grammatical theory is considered in relation to philosophy, psychology, sociology, comparative linguistics, and pedagogy. (3 credits) *NOTE A/See § 200.1*

TESL C434
Error Analysis

Prerequisite: 15 TESL credits. A study of errors made by the ESL learner. This course considers recurring types of intralingual and developmental errors in language use. Teaching procedures will take such developmental and structural conflicts into consideration. (3 credits) *NOTE A/See § 200.1*

TESL C442
Problems in Bilingualism

Prerequisite: 15 TESL credits. An examination of the social and psychological background of languages in contact, with particular emphasis on the situation in Quebec. Motivation for second language learning in schools is studied in terms of cultural and socio-economic factors. In addition such extra-linguistic influences as the historic and political context of bilingualism in Canada are covered. (3 credits) *NOTE A/See § 200.1*

TESL C479
Internship

This course is offered only to students enrolled in the programme *Certificat d'enseignement de l'anglais, langue seconde.* It will involve observation and supervised teaching practice both in the university and in the schools. The course will also include seminar sessions for analysis and discussion of teaching performance. (3 credits) *NOTE A/See § 200.1*

TESL C482
Internship—Elementary

Prerequisite: TESL C382. This internship is closely integrated with TESL C422 and TESL C411. The course provides practical application of the theories and information discussed in classes. The course requires 100 hours of supervised internship in local elementary schools, with scheduled seminar sessions and tutorials for analysis and discussion of teaching performance. (6 credits) *NOTE A/See § 200.1*

TESL C483
Internship—Secondary

Prerequisite: TESL C383. This internship is closely integrated with TESL C423 and TESL C412. The course provides practical applica-

tion of the theories and information discussed in classes. The course requires 100 hours of supervised internship in local secondary schools, with scheduled seminar sessions and tutorials for analysis and discussion of teaching performance. (6 credits) *NOTE A/See § 200.1*

TESL C484
Internship—Adult

Prerequisite: TESL C384. This internship is closely integrated with TESL C423 and TESL C412. The course provides practical application of the theories and information discussed in classes. The course requires 100 hours of supervised internship at the adult level, with scheduled seminar sessions and tutorials for analysis and discussion of teaching performance. (6 credits) *NOTE A/See § 200.1*

TESL C491
Study in a Special Subject

Prerequisite: Permission of the Department. This course provides an opportunity for advanced students to intensify their study beyond the area of specialization already represented by the curriculum. The selected subject will vary with the special interest of the instructor offering the course in any given year. (3 credits) *NOTE C/See § 200.1*

TESL C492
Study in a Special Subject

Prerequisite: Permission of the Department. A student repeating TESL C491 registers for credits under TESL C492. (3 credits) *NOTE A/See § 200.1*

31.32 Theological Studies

Chairman
S. E. McEVENUE, *Associate Professor*

Associate Professors
R. W. BREEN
M. FAHEY, S. J.
P. GARNET
J. HOFBECK
M. SPICER

Assistant Professors
R. P. MOROZIUK
J. J. RYAN

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Honours in Theological Studies

Year I
18 Theo Elective credits
Year II
24 Theo Elective credits
Year III
18 Theo Elective credits

NOTE: Students must have their programme approved by the Department. The following directives should normally be observed:

1) 6 credits should be chosen in each of the theological areas: Old Testament, New Testament, Systematic, Historical
2) 3 credits should be chosen in Ethics
3) 6 credits should be chosen in a non-Christian tradition
4) A maximum of 12 credits may be chosen among the 200-level courses
5) 6 credits may be taken as a cognate course, offered in another department
6) A group of 18 to 24 credits within one area should be planned in order to assure each student of expertise in some aspect of Theology
7) A reading knowledge of those languages required for advanced work must be planned
8) Students seeking admission to the Honours programme on or after June 1st 1977 will be bound by the Honours requirements outlined in § 16.2.4 of this Calendar. Students who already had Honours status by June 1st 1977 will continue to be governed by the requirements which applied at the date of their admission to the Honours programme.

60 Specialization in Theological Studies

With permission of the Department, a student may be admitted to a Specialization programme.
Year I
18 THEO elective credits
Year II
24 THEO elective credits
Year III
18 THEO elective credits

NOTE: Students must have their programme approved by the Department.

Directives 1) to 7) applying to the Honours Programme will normally also apply to the Specialization.

42 BA Major in Theological Studies

Year I
12 Theo Elective credits
Year II
18 Theo Elective credits
Year III
12 Theo Elective credits

NOTE: Students must have their programme approved by the Department. One course (6 credits) may be taken as a cognate course offered in another Department.

24 Minor in Theological Studies

24 Theo Elective credits

NOTE: Students must have their programme approved by the Department. Three courses (18 credits) must be chosen among the offerings at the 300 level and 400 level. The fourth course (6 credits) may be chosen at any level.

All courses in the Department, with the exception of tutorials, are open to any qualified student of Concordia.

A diploma programme in Theological, Religious and Ethical Studies is offered jointly by the Department of Theological Studies with the Department of Religion in association with the Department of Philosophy for offerings in ethical studies.

Courses of General Interest

THEOLOGY C200
Selected Topics in Theology I

Content will depend on the theme designated by the Department. The theme varies from year to year. (3 credits)

THEOLOGY C202
Selected Topics in Theology II

Content will depend on the theme designated by the Department. The theme varies from year to year. (3 credits)

THEOLOGY C205
Trends in Theology Today I

Major shifts in self-understanding that have led to internal and external restructurings of the Christian Churches. Conceptual and ecumenical changes against the background of contemporary society and social theory. Traditionally disputed theological questions and modern reformulations that have advanced Christian unity. (3 credits)

THEOLOGY C206
Trends in Theology Today II

Prerequisite: Theology C205 or permission of the Department. Further consideration of the themes introduced in Theology C205. (3 credits)

THEOLOGY C210
Christian Beliefs

The Christian assessment of man in the light of belief in God, creation, Jesus Christ, ultimate destiny and salvation. Specific practices and values of the Christian community. The relationship of church to society as exemplified in social reforms and liberation theology. (3 credits)

THEOLOGY C211
Christianity: Multicultural Perspective

Christianity throughout its history has interacted with Judaism, Hellenism, Islam, Hinduism, Buddhism, Marxism in other religious cultures and ideologies. This course examines the history of these contacts with their multifaceted results and theological implications. (3 credits)

THEOLOGY C215
Christian Mysticism

A survey of the Christian mystical tradition: outstanding Christian mystics, representative mystical literature, the role of prayer and ascetic practices. (3 credits)

THEOLOGY C220
The Bible and Western Culture I

A study of the Old and New Testaments: their formation, interpretation and influence on Western civilization from Moses to the present. (3 credits)

THEOLOGY C221
The Bible and Western Culture II

Prerequisite: Theology C220 or permission of the Department. A continuation of Theology C220. (3 credits)

THEOLOGY C225
History, Culture and the Christian way of Life

The response of Christian peoples and communities to the challenge posed by various historical cultures in the shaping of Christian beliefs and practices. Specific themes of interest to North America, such as poverty, healing and minority religious groups. (3 credits)

THEOLOGY C230
Contemporary Atheism

The Christian of today has to face an accelerated process of secularization and new forms of atheism. This course seeks to analyse the contemporary phenomenon of "atheism", to examine its roots, to raise the question of its positive meaning, and to define a Christian attitude towards it. Through this dialogue with atheism we shall attempt to uncover the essentials of Christianity itself. (3 credits)

THEOLOGY C240
Theology and the Arts I

Classical art and myth: the poetic foundations of theological discourse and their relation to the imagination of the artist. (3 credits)

THEOLOGY C241
Theology and the Arts II

An exploration within recent forms in painting, poetry and film. Theological reflection to discover the civilizing function of images of God produced by the imagination. (3 credits)

THEOLOGY C264
Theological Dimensions of Psychology I

This course is a theological exploration in psychological studies embracing: a) a critical and constructive consideration of Freud and Jung; b) a survey of neo-Freudian social psychologists, such as Horney and Sullivan; c) a survey of third-force psychologists such as Rogers, Maslow and May. (3 credits)

THEOLOGY C266
Theological Dimensions of Psychology II

The multifaceted methodology of C. G. Jung; themes relating to psychology and theology. (3 credits)

Introductory Courses

THEOLOGY C300
The Old Testament

A survey of Old Testament texts (in English translation), with an introduction to contemporary methods of interpretation and appreciation. (3 credits)

THEOLOGY C310
The New Testament

The date, authorship, purpose, structure and sources of the books of the New Testament. Understanding their content in its historical setting. (3 credits)

THEOLOGY C330
Principles of Systematic Theology

An introduction to the types, methods, tools and sources of theology. The principal themes of Christian theology are investigated according to their biblical, historical, and philosophical roots. (3 credits)

THEOLOGY C350
Foundations of Christian Ethics

An introduction to the study of Christian Ethics; the role of Christian beliefs for a new foundation of ethics in the present intellectual, cultural and historical situation. (3 credits)

THEOLOGY C360
Christianity in History

The historical dimensions of Christian existence; its institutions, personalities, major events. Methods of inquiry. (3 credits)

THEOLOGY C382
Contemporary North American Judaism I

The sources of authority in Judaism; development of a pharasaic-rabbinic tradition viewed in the light of modern thought. (3 credits)

THEOLOGY C383
Contemporary North American Judaism II

The ideologies of modern religious movements; the theology of the holocaust. (3 credits)

THEOLOGY C385
World Religions I

An introduction to the history and texts of a religious tradition which has deeply marked world history outside the Judeo-Christian streams (e.g. Buddhism, Islam, Hinduism) (3 credits)

THEOLOGY C386
World Religions II

Prerequisite: Theology C385 or permission of the Department. A further study following upon Theology C385. (3 credits)

Advanced Courses

NOTE: With the exception of Theology C471, C472, C498 and C499 all 400 level Theology courses have as their prerequisite an appropriate 300 level Theology course, or its equivalent with permission of the Department.

THEOLOGY C400
Advanced Topics in Theology I

Prerequisite: Successful completion of an appropriate 300-level course or its equivalent and permission of the Department. This course focuses on advanced topics of interest in Theology. Content will depend on a theme designated by the Department, which varies from year to year. (3 credits)

THEOLOGY C402
Advanced Topics in Theology II

Prerequisite: A student may repeat Theology C400 by registering for credits under Theology C402, provided the subject matter is different. This course focuses on advanced topics of interest in Theology. Content will depend on a theme designated by the Department, which varies from year to year. (3 credits)

THEOLOGY C405
The Pentateuch

Prerequisite: Theology C300 or its equivalent with permission of the Department. A reading of selected passages. Discussion of current research into the meaning of these ancient books. Methods of inquiry and their application. (3 credits)

THEOLOGY C406
The Historical Books

Prerequisite: Theology C300 or its equivalent with permission of the Department. A reading of selected passages. Methods of interpreting historical texts in the Old Testament and of determining both their historicity and their meaning will be discussed and applied. (3 credits)

THEOLOGY C407
The Prophetic Traditions

Prerequisite: Theology C300 or its equivalent with permission of the Department. A reading of selected passages. Historical backgrounds will be studied. Current methods for interpreting ancient poetry will be discussed and applied. (3 credits)

THEOLOGY C408
The Psalms and Wisdom Literature

Prerequisite: Theology C300 or its equivalent with permission of the Department. A reading of selected passages. Current methods for interpreting ancient poetry will be discussed and applied. A variety of literary genres, literary forms and theological themes will be identified and analyzed. (3 credits)

THEOLOGY C409
Seminar in Old Testament Literature

Prerequisite: Theology C300 or its equivalent with permission of the Department. A specific book of the Old Testament will be studied in the light of ancient and modern commentaries and of current research. (3 credits)

THEOLOGY C410
Selected Topics in Biblical Theology

Prerequisite: Theology C300 and C310 or permission of the Department. Selected biblical traditions or themes will be studied as they develop in changing historical contexts. (3 credits)

THEOLOGY C411
The Synoptic Gospels

Prerequisite: Theology C310 or its equivalent with permission of the department. Exegesis of selected passages in the light of recent scholarship. Studies in their doctrinal contents. Historical inquiry into the works and words of Jesus. (3 credits)

THEOLOGY C412
Acts and the Beginnings of Christianity

Prerequisite: Theology C310 or its equivalent with the permission of the Department. Acts, Hebrews, James and I Peter: exegesis of selected passages in the light of recent scholarship, studies in their doctrinal contents. Historical inquiry into the life of the early Church. (3 credits)

THEOLOGY C414
The Johannine Writings

Prerequisite: Theology C310 or its equivalent with the permission of the Department. An examination of Gospel, Letters and Revelation situated within the context of first-century Christian and non-Christian religious thought. (3 credits)

THEOLOGY C416
The Theology of St. Paul

Prerequisite: Theology C310 or its equivalent with permission of the Department. A historical-critical examination of Paul's theological thought, tracing its development through the chronological sequence of his letters. The focus is on what is central and normative for Christian theology and what is particularly relevant for today. (3 credits)

THEOLOGY C420
Methods in the Study of Religion

Prerequisite: Theology C330 or its equivalent with permission of the Department. This course will examine some of the main approaches to the study of religion, giving emphasis to the key problems and techniques of inquiry in these approaches with special attention to the theological method in its distinctive Christian context. (3 credits)

THEOLOGY C422
Religious Language

Prerequisite: Theology C330 or its equivalent with permission of the Department. A study of religious and theological language in relation to other forms of language and expression. (3 credits)

THEOLOGY C428
19th-Century Criticism of Christianity

Prerequisite: Theology C330 or its equivalent with permission of the Department. An introductory consideration of the Enlightenment, in particular Lessing as theologian. Theological perspectives of Schleiemacher and Hegel. Theological reductions and criticisms of Strauss, Feuerbach, Marx, Kierkegaard and Nietzsche. (3 credits)

THEOLOGY C429
20th-Century Consciousness of God

Prerequisite: Theology C330 or its equivalent with the permission of the Department. Interrelated themes on the consciousness of God through a study of representative thinkers. (3 credits)

THEOLOGY C430
God

Prerequisite: Theology C330 or its equivalent with permission of the Department. A study of the Christian vision of God. Selected readings from classical theologians. (3 credits)

THEOLOGY C431
Theology of Revelation

Prerequisite: Theology C330 or its equivalent with permission of the Department. An inquiry into revelation as a central theme of fundamental theology. The contributions of representative theologians to the development of the theology of revelation. (3 credits)

THEOLOGY C432
Theological Anthropology

Prerequisite: Theology C330 or its equivalent with permission of the Department. Different religious interpretations and emphases given to the doctrine of man as the image of God from a theological perspective. The distinctiveness of theological understanding as compared with the methods of philosophy, psychology, natural sciences and literary studies. (3 credits)

THEOLOGY C434
Word and Sacrament

Prerequisite: Theology C330 or its equivalent with permission of the Department. The sharing of religious values through spoken word, scriptures, iconic representation. The use of ritual and symbolic communication in sacramental actions, especially in baptism and eucharist. The possibility of transcultural sharing amid cultural diversity. (3 credits)

THEOLOGY C438
Problems of Eschatology

Prerequisite: Theology C330 or its equivalent with permission of the Department. Fundamental terms of eschatology. The relationship between history and eschatology. Christian eschatological hope and secular utopianism. The relationship between individual and cosmic eschatology. (3 credits)

THEOLOGY C440
Theology of the Church

Prerequisite: Theology C330 or its equivalent with permission of the Department. The ministry of Jesus and the post-Resurrection community. Belief in the Holy Spirit's presence in the Church. Tasks of Christians in the world. Faith and freedom. Ecclesial teachership and authority. Pastoral office and ministry. (3 credits)

THEOLOGY C442
Jesus Christ

Prerequisite: Theology C330 or its equivalent with permission of the Department. The Christian understanding of Jesus Christ. The examination of the mystery of the Incarnation through an analysis of biblical and historical data concerning the person and the work of Jesus Christ. (3 credits)

THEOLOGY C448
Major Christian Theologians

Prerequisite: Theology C330 or its equivalent with permission of the Department. Readings and analysis of principal writers who have shaped twentieth-century thought in the Christian tradition. Each year one particular theologian is chosen for research from writers such as Thomas Aquinas, Karl Rahner, Teilhard de Chardin, Karl Barth. (3 credits)

THEOLOGY C451
Recent Developments in Moral Theology

Prerequisite: Theology C350 or its equivalent with permission of the Department. A study of representative theologians who in the recent past have developed new approaches to moral theology and to particular moral problems. (3 credits)

THEOLOGY C453
Bio-Ethics I

Prerequisite: The student must be registered in a programme in Theology or in Community Nursing or Health Education or the equivalent. A study of the moral aspects of human genetics, experimentation on human beings, behaviour control, health care, death and dying. Those issues of biomedical practices, institutions and policy-making processes which involve religious values and principles. (3 credits)

THEOLOGY C454
Bio-Ethics II

Prerequisite: Theology C453 or permission of the Department. A continuation of Theology C453. (3 credits)

THEOLOGY C455
Social Ethics

Prerequisite: Theology C350 or its equivalent with permission of the Department. The relation between social sciences and social ethics. Major social ethical practices and discourses of the Christian churches. New approaches to social ethics. (3 credits)

THEOLOGY C456
Ethics and Economic Life

Prerequisite: Theology C350 or its equivalent with permission of the Department. Economic practices, theories and institutions are studied in relation to their ideational, philosophical, moral and religious presupposi-

tions. Moral dilemmas faced by businessmen, economists and corporations. The involvement and responsibility of Christian churches in economic matters. (3 credits)

THEOLOGY C457
Ethics and Politics

Prerequisite: Theology C350 or its equivalent with permission of the Department. An historical and critical examination of the relation between ethics, politics and religion. (3 credits)

THEOLOGY C458
The Ethics of Human Sexuality

Prerequisite: Theology C350 or its equivalent with permission of the Department. Ethical and theological interpretations of human sexuality in the light of developing insights from the behavioural sciences. (3 credits)

THEOLOGY C459
Selected Topics in Christian Doctrine

Prerequisite: Theology C330 or its equivalent with permission of the Department. Specific teachings or traditions of the Christian faith will be examined in their historical context. (3 credits)

THEOLOGY C460
Historical Fact and Christian Faith

Prerequisite: Theology C360 or its equivalent with permission of the Department. Problems posed by the critical historian's judgement of the Christian's faith in the significance of historical events and persons. The scientific secular revolution and the writing of history, the uses of the present and the rethinking of the past, the appearance of modern unbelief, the autonomy of historical judgement and the new understanding of faith. Methodological contributions from scholars such as Ranke, Dilthey, Weber, Collingwood, Tüchle, Aubert and Marrou. (3 credits)

THEOLOGY C461
Selected Subjects in Early Christianity

Prerequisite: Theology C360 or its equivalent with permission of the Department. The developing response of Christianity to challenges presented by the culture, thought and social structures of the period. (3 credits)

THEOLOGY C462
Eastern Christianity

Prerequisite: Theology C360 or its equivalent with permission of the Department. A survey of the historical evolution of Christianity in North-East Africa, the Middle East, South-West India, modern Greece, the Balkan States, the Ukraine, Russia; also the eastern Christians in the diaspora: Europe, North and South America, Africa and Australia. This course will focus, too, on the piety, persons, institutions and religious thought which characterize Christian traditions in this area. (3 credits)

THEOLOGY C463
Selected Subjects in Mediaeval Christianity

Prerequisite: Theology C360 or its equivalent with permission of the Department. The development of theological literature, Christian institutions and popular religious culture in mediaeval Europe from the beginning of universities to the end of the Great Schism. (3 credits)

THEOLOGY C464
Images of God in Mediaeval Christianity (1250 — 1500)

Prerequisite: Theology C360 or its equivalent with permission of the Department. A study of the spiritual life of late mediaeval society through a thematic analysis of representations of God in popular forms of religious expression. Liturgical, literary and artistic representations of God in clerical and lay sources will be treated with specific attention to late mediaeval town life. (3 credits)

THEOLOGY C466
Protestant Origins and Their Distinctive Development

Prerequisite: Theology C360 or its equivalent with permission of the Department. Characteristic doctrines and movements of Protestantism through the essential phases of their evolution. (3 credits)

THEOLOGY C467
Selected Subjects in Modern Christianity (1500 — 1800)

Prerequisite: Theology C360 or its equivalent with permission of the Department. An historical analysis of the events, personalities and ideas emerging from the religious upheavals of the Reformation and Enlightenment. (3 credits)

THEOLOGY C468
Mediaeval Foundations of the Church in New France

Prerequisite: Theology C360 or its equivalent with permission of the Department. The mediaeval heritage of the Roman Catholic Church in New France in its spiritual and structural aspects. The feudal church, theocratic institutions, Gallican traditions, missionary orders, parish life in relationship to the religious and cultural life in New France from its colonization to the British Conquest. (3 credits)

THEOLOGY C469
Selected Subjects in Canadian Church History

Prerequisite: Theology C360 or its equivalent with permission of the Department. An historical analysis of Church and sect in the Maritime provinces, the Canadas and western provinces from the British Conquest to the present day. (3 credits)

THEOLOGY C470
Selected Subjects in Contemporary Christianity (1800 — present)

Prerequisite: Theology C360 or its equivalent with permission of the Department. A study of more recent historical developments, such as the Modernist crisis, the development of Liberalism, ecumenical and liberation movements. (3 credits)

THEOLOGY C471
Woman and Christianity

Prerequisite: Either Theology C360 or appropriate courses in Women's Studies or permission of the Department. The theological and historical roles of women in Christianity. Female proto-types and images of women in the Old and New Testaments, Fathers of the Church, canon law, mediaeval

theology, the Reformation and modern theology. The history of woman in the development of Christianity. (3 credits)
NOTE: This course may be taken for credit in the Women's Studies programme.

THEOLOGY C472
The Feminine and the Female in Contemporary Christian Theology

Prerequisite: Either Theology C360 or appropriate courses in Women's Studies or permission of the Department. Contemporary Christian thought on woman and the role of the feminine in human development and cultural differentiation: a theological and historical critique of these contemporary perspectives within the context of human liberation. (3 credits)
NOTE: This course may be taken for credit in the Women's Studies programme.

THEOLOGY C498
Theology Tutorial I

Prerequisite: Third-year standing in Honours, Specialization or Major programme in Theology. Students may choose, in consultation with a tutorial director, a research topic or other specialized work for intense analysis during the final year. (3 credits)

THEOLOGY C499
Theology Tutorial II

Prerequisite: Successful completion of Theology C498. With permission of the Department, in special cases a second tutorial or a continuation of a tutorial under Theology C498 may be given to students who request it. (3 credits)

31.33 Computer Science

The Department of Computer Science offers a Minor in Computer Science for students in the Faculty of Arts and Science. For further details of this programme see § 71:8:5.

For discontinued programmes formerly offered by the Loyola Faculty of Arts and Science and by the Sir George Williams Faculty of Science refer to § 71:8:7 of the 1979-80 University Calendar.

31.34 Women's Studies

Coordinator
S. McDONOUGH, *Professor*

This programme is designed to present a comprehensive view of Women in Society specifically in terms of their status and participation in it. Courses in the programmes (Minor and Major) include such concerns as Women in the Arts, Literature, History and selected societal institutions (e.g. the family). The aims of the programme are to introduce the student to the study of women and to offer some background for those who will work in institutions and occupations concerned with women.

PROGRAMMES

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

36 BA Major in Women's Studies

12 WMNS C290^3, C291^3, C491^3, C492^3
*Groups 1 and 2**
12 Chosen from CLAS C254^6, HIST C318^6, RELI C333^3, C334^3, THEO C471^3, C472^3, PHIL C230^3, ENGL C249^3, C250^3, C251^3, C252^3, FRAN C476^3, C477^3, WMNS C390^3, C391^{3**}
Group 3
12 Chosen from POLI C334^6, ECON C397^3, SOCI C372^6, PSYC C390^6, EDUC C321^3, WMNS C390^3, C391^{3**}, C392^3, C393^3

* Group 1: Women's Literature
Group 2: Women's History and Humanities
Group 3: Women as Studied by the Social Sciences

** WMNS C390^3, C391^3 will fall in Groups 1, 2 or 3 depending upon content.

24 Minor in Women's Studies

12 WMNS C290^3, C291^3, C491^3, C492^3
12 Chosen from CLAS C254^6, HIST C318^6, RELI C333^3, C334^3, THEOL C471^3, C472^3, PHIL C230^3, ENGL C249^3, C250^3, C251^3, C252^3, FRAN C476^3, C477^3, POLI C334^6, ECON C397^3, SOCI C372^6, PSYC C390^6, EDUC C321^3, WMNS C390^3, C391^3, C392^3, C393^3

30 Certificate in Women's Studies

6 WMNS C290^3, C291^3
6 Chosen from CINE C329^3, ENGL C249^3, C250^3, C251^3, C252^3, FRAN C451^3, C476^3, C477^3, RELI C333^3
6 Chosen from CLAS C254^6, HIST C318^6, RELI C333^3, C334^3, THEO C471^3, C472^3, PHIL C230^3
6 Chosen from POLI C334^6, SOCI C372^6, EDUC C321^3, PSYC C390^6, ECON C397^3
6 Chosen from WMNS C390^3, C391^3, C392^3, C393^3, C491^3, C492^3

WOMEN'S STUDIES C290
Women's Identity and Image: Historic Attitudes

An interdisciplinary study of the nature of woman as understood by western society from its Greek origins to the mid-nineteenth century. Sample topics are: the Greek myths, the Bible (Eve and Mary), Greek philosophy (Plato and Aristotle), courtly love, medieval mysticism and Victorianism (Kierkegaard, Schopenhauer, Queen Victoria and Ibsen). (3 credits)
NOTE: Students who have received credit for INTE C290 may not take this course for credits.

WOMEN'S STUDIES C291
Woman's Identity and Image: Recent Approaches

An interdisciplinary study of the nature of woman as understood by western society from the mid-nineteenth century to the present. Sample topics are: the effect of the Industrial Revolution on the family (Marx and Engels), the emancipation of women (John Stuart Mill, Virginia Woolf), the psychology of woman (Freud and Jung), and contemporary attitudes towards women and Women's Liberation. (3 credits)
NOTE: Students who have received credit for INTE C291 may not take this course for credits.

WOMEN'S STUDIES C390
Selected Topics in Women's Studies

This course focuses its attention on one or more aspects of the Women's Studies programme. The theme and methodology chosen will depend upon the background and interests of the instructor. Students are advised to consult the programme coordinator before registering in order to be sure of the title of the course in any one session. *Lectures:* 3 hours per week. (3 credits)
NOTE: With the permission of the Coordinator students may take this course twice for credits provided that a different subject is dealt with the second time and will register under WMNS C391.
NOTE: Students who have received credit for INTE C390 may not take this course for credits.

WOMEN'S STUDIES C391
Selected Topics in Women's Studies

Students taking WMNS C390 a second time will register under WMNS C391. (3 credits)

WOMEN'S STUDIES C392
Social Change: Women in Modern Society I

An interdisciplinary course designed to survey some of the major theories on women's role in society. The specific discipline emphasized will vary from year to year depending upon the background of the instructor. *Lectures and/or seminars:* 3 hours per week for one term. (3 credits)
NOTE: Students who have received credit for INTE C392 may not take this course for credits.

WOMEN'S STUDIES C393
Social Change: Women in Modern Society II

An interdisciplinary course designed to survey some of the major theories on women's role in society. The specific discipline emphasized will vary from year to year depending upon the background of the instructor. *Lectures and/or seminars:* 3 hours per week second term. (3 credits)
NOTE: Students who have received credit for INTE C393 may not take this course for credits.

WOMEN'S STUDIES C491
Seminar in Women's Studies I

Prerequisite: Open to all third year students. This is an interdisciplinary seminar on selected themes related to women in society, utilizing the perspectives of a number of academic disciplines. The emphasis is on independent study. *Lectures:* 3 hours per week. (3 credits)
NOTE: Students who have received credit for INTE C491 may not take this course for credits.

WOMEN'S STUDIES C492
Seminar in Women's Studies II

Prerequisite: Permission of the instructor. This is a continuation of the interdisciplinary seminar on selected topics related to women in society. *Lectures:* 3 hours per week. (3 credits)
NOTE: Students who have received credit for INTE C492 may not take this course for credits.

31.35 Courses Offered in Summer 1979 Only

CLASSICS C261
Introduction to Greek and Roman Mythology
(6 credits)

CHEMISTRY C223
Introductory Organic Chemistry I (Biological Emphasis)
(3 credits)

CHEMISTRY C224
Introductory Organic Chemistry II (Biological Emphasis)
(3 credits)

FRENCH C224-226
Elementary Oral French
(2 x 6 credits)

FRENCH C234-236
Cours Intermédiare I
(2 x 6 credits)

FRENCH C244-246
Cours Intermédiare II
(2 x 6 credits)

FRENCH C334-336
Cours Avancé I
(2 x 6 credits)

FRENCH C344-346
Cours Avancé II
(2 x 6 credits)

GERMAN C360
German Culture and Civilization
(6 credits)

GEOGRAPHY C339
Urbanization and Development in the Third World
(6 credits)

GEOGRAPHY C352
Northern Development
(6 credits)

GEOGRAPHY C369
Sub-Arctic Field Studies in Geography
(3 credits)

SPANISH C490
Spanish Balladry
(6 credits)

31.100 Colleges, Institutes, Schools and Centres

Provost
R. WALL

Assistant Provost
M. SINGER

The Faculty of Arts and Science is the largest Faculty in the University. It offers programmes based on sound scholarship together with a high calibre of teaching and research.

In order to combat the depersonalization so often found in a large Faculty, the Faculty of Arts and Science has created smaller, more manageable units offering a personalized approach to education. At present, there are six such units in existence: Centre for Mature Students, Liberal Arts College, Lonergan University College, School of Community & Public Affairs, Science College, and Simone de Beauvoir Institute. Each college, centre or institute is composed of a group of students and Fellows who are united by a particular philosophy of education.

Each unit operates in much the same fashion. A student admitted to the University will enroll in a specific Department-based programme — a major, specialization or honours. In addition, students attracted to the philosophy of education of a Division IV unit, or finding its core programmes and related electives most responsive to their individual needs will apply to the specific unit in question. Once admitted to the College, Institute, School or Centre of their choice, students may benefit from the academic curriculum, the extra-curricular activities and social and intellectual environment provided in each of these units. It is the goal of Division IV to assist students to broaden their specialized disciplinary education with carefully chosen electives, with specially designed tutorials and with career-oriented advising, all set in a more personal and friendly "university college" environment.

Each unit has a physical location of its own, where its students may gather to exchange ideas, whether in the classroom or in one of the lounges provided for such inteaction. As well, there is a library of basic books and periodical literature. From time to time, there will be planned activities, special interest seminars, and stimulating lectures by invited guest speakers.

Each unit has a group of faculty members from within the University assigned as Fellows or Tutors, whose major function will be to act as student advisors. Together, students and Fellows or Tutors plan a carefully integrated undergraduate programme based on the philosophy of education promoted.

The advantage of this approach to education is that students can utilize the resources of a large Arts and Science Faculty, yet still enjoy the effective interchange of ideas that only a small unit can provide.

31.105 Centre for Interdisciplinary Studies

Director
To be announced

Assistant Director
To be announced

The Centre has as its objective, the integration of knowledge in order to develop a perspective which an isolated discipline could not provide. It seeks to counteract the fragmentation, specialization and compartmentalization of knowledge. Through the Centre, the student may select a course of study different from those available in departments which reflect the disciplinary divisions and orientations. The Centre offers a B.A. Specialization, Major and Minor in most of its programmes. Four programmes housed by the Centre are area studies: Asian, Canadian, Russian and Third World. Three other programmes are thematically organized: Recreation and Leisure Studies, Science and Human Affairs, and Urban Studies. Students may also structure their own interdisciplinary programmes — attempting to integrate the contributions of several disciplines to a problem area — through the Self-Elected Specialization or Undergraduate Scholars programmes.

For more detailed information about programmes and courses in Interdisciplinary Studies please consult section 31.19 of this calendar.

31.110 Centre for Mature Students

Director
B. B. OPALA, *Assistant Professor, English*

Associate Director
W. J. COZENS

Fellows
M. ARMSTRONG, *Professor, Economics*
M. BRIAN, *Associate Professor, Mathematics*
J. BHATNAGAR, *Associate Professor, Education*
R. CRONIN, *Associate Professor, Biological Sciences*
P. D'HOLLANDER, *Associate Professor, French*
R. DIUBALDO, *Associate Professor, History*
W. FRANCIS, *Professor, English*
A. GALLER, *Lecturer, Library Studies*
A. HAMALIAN, *Assistant Professor, Education*
A. KETTER, *Associate Professor, Modern Languages and Linguistics*
C. MACLEOD, *Associate Professor, Biological Sciences*
M. MASON, *Associate Professor, History*
M. SHELDON, *Executive Assistant to the Rector*
P. WIDDOWS, *Professor, Classics*
J. R. WILBUR, *Professor, History*
R. WILLS, *Associate Professor, Quantitative Methods*

Concordia University has a tradition of concern for the education of mature students; it has always maintained a number of programmes designed to assist students of 21 and over to undertake undergraduate studies.

The primary aim of the Centre for Mature Students is to develop our services to students returning to formal studies after an absence of many years. It is difficult to plunge suddenly into a very large urban university after years away from classes and studying; therefore, the Fellows and Staff of the Centre hope to reach out to all mature students and offer them encouragement and guidance. The Centre has quarters on both campuses, which function as a "home base" for students who want counselling or are simply in need of some social contact with their peers. Newly equipped lounge facilities are provided for students.

Also, the Centre has Fellows chosen from a cross-section of faculty members especially interested in the problems encountered by adults working towards a degree. Fellows of the Centre will be on hand at appointed times to offer advice and information on such matters as the choice of initial courses at the outset of studies and the variety of Concordia's programme offerings for those ready to embark on their field of undergraduate concentration. At all times, someone will be present to answer questions on both the Sir George Williams and the Loyola campuses.

It is the intention of everyone involved in the work of the Centre to provide mature students with a sense of belonging and thus help them gain the self-confidence so necessary for successful university work.

The Centre will be open from 9 a.m. to 8.30 p.m. Monday through Thursday and from 9 a.m. to 5 p.m. on Friday. The Centre for Mature Students has two locations, as follows:

The Sir George Williams Campus	**The Loyola Campus**
Hall Building 1455 de Maisonneuve Blvd. W. 4th Floor Suite H 462	Central Building 7141 Sherbrooke Street West 3rd Floor Room CC-308
Tel: 879-7269, 7271, 7277	Tel: 482-0320 Ext. 263

General Information about the Mature Student Programme

The Mature Student Programme is designed to enable individuals who are twenty-one years of age or older, and who have not satisfied the normal admission requirements, but have demonstrated potential, to take undergraduate programmes. The University assumes that the age of the students will have allowed them to acquire informally some of the general education given to younger students at the collegial level, and as a result the Mature Student Programme concentrates on the knowledge and skills which will be needed to undertake a given programme of concentration.

Successful completion of a specified number of credits will be required in addition to those required of students entering with a Diploma of Collegial Studies or the equivalent. While they are obtaining these additional credits, mature students are considered in every way to be undergraduates.

The additional number of credits required of students who do not possess the necessary academic prerequisites to start immediately the 90-credit undergraduate programme is based on the age of an individual at the time of entry — hence there are in

CENTRE for MATURE STUDENTS 31.110

fact two plans or programmes:

a) **The Mature Students Programme (MSP)** — for those students who are 21 years of age but under 25. Students in this age group are required to complete 30 extra credits in courses at the introductory level.

b) **The Mature Entry Programme (MEP)** — for those who are 25 years of age or over and who must complete 18 extra credits in courses at the introductory level.

For specific information about programmes for Mature Students — requirements, recommended courses, etc., please consult section 14 of this Calendar.

31.115 Liberal Arts College

Principal
F. KRANTZ, *Associate Professor, History*

Fellows
W. BOTTENBERG, *Assistant Professor, Music*
M. BROSS, *Associate Professor, Psychology*
E. EGAN, *Associate Professor, Philosophy*
J. F. LAFFEY, *Professor, History*
A. LALLIER, *Associate Professor, Economics*
C. LEVY, *Associate Professor, French*
G. RUDE, *Professor, History*
W. SANDERSON, *Professor, Visual Arts*
G. D. SHEPS, *Associate Professor, English*
F. E. SHLOSSER, *Assistant Professor, Classics and History*
H. SHULMAN, *Associate Professor, Political Science*
V. ZEMAN, *Associate Professor, Philosophy*

Liberal Arts College provides students with a broad, demanding educational foundation in the liberal arts. Its curriculum is an alternative for students dissatisfied with premature specialization and fragmentation of knowledge. Defining the "liberal arts" in contemporary terms, the College stresses work in a Core Curriculum of related courses, seminars, and tutorials in the humanities, social sciences, art, music, and science. Its core courses stress the acquisition of basic knowledge and research and writing skills, as well as an awareness of interpretive problems and advanced analytic approaches. The Core Curriculum in turn, makes for informed choices in the College's second major component, advanced work and research in a specific discipline or area.

Objectives

The major goal of Liberal Arts College is to assist the student in the process of becoming an educated person. The College seeks to translate the traditional vision of education as preparation for life into modern idioms. Its core courses and seminars, sharing a common concern with the changing nature of society and culture, aim at the development of an informed, critical consciousness.

Emphasis is also placed on sharpening the basic expressive and analytic tools indispensable to social and cultural understanding. All College students are expected to acquire a knowledge of a second language, normally French, necessary for their research and to write and to express themselves clearly. Training in research techniques is stressed, and original, independent work encouraged.

Liberal Arts College, linking demanding general education to significant specialization, is committed to serious intellectual work. Through its curriculum, staff, standards and academic environment it hopes to communicate the excitement and creativity of such engagement to its students.

Liberal Arts College Admission and Programme Requirements

Students admitted to the University and seeking to enter the College must have a "B" average from CEGEP or its equivalent. All students must demonstrate proficiency in English composition* and a second language upon admission, or undertake necessary make-up work. All applicants should apply through the University Admissions Office; they should also contact the College for an interview. Mature students are admitted to the College on the basis of an interview and an examination of their record. Full-time degree candidates will normally complete their College Core Curriculum within three academic years; part-time degree candidates should complete their College Core Curriculum within six academic years. Students who have been admitted to departmental Honours programmes must maintain a "B" average in their College Core Curriculum; all others must maintain a "C" average in their College Core Curriculum. All Honours students in the College are expected to undertake significant original work, on a staff-guided basis, in their final year.

*Les étudiants francophones devront donner la preuve de leur connaissance de la langue anglaise.

Staff

Faculty Fellows chosen from the University's Departments staff all College courses, seminars and tutorials. Senior Fellows are resident in the College, as is its Principal, who also teaches in the Core Curriculum. It is intended that each year a Distinguished Visiting Fellow, selected on the basis of outstanding academic achievement and renown, will be resident and teaching in the College.

Facilities

Liberal Arts College is located on Concordia University's downtown Sir George Williams Campus. Much of its seminar and tutorial teaching is done here, in the same building which houses the College's Principal and Senior Fellows. The College has student study areas, a course-materials library and audio-visual facilities, as well as a Commons Room and a collection of important newspapers, journals, and periodicals. The College is the focus of an extra-curricular programme of visiting speakers and cultural events, and is a place where the exchange of ideas and views generated in courses and seminars continues on a more informal basis.

Counselling

Close student-faculty contact and exchange is part of Liberal Arts College's stress on serious intellectual work. Each student is assigned a faculty Fellow as a personal adviser, who follows his or her progress through the College and advises on the choice of disciplinary or area specialization. All students' work is evaluated annually by the Principal and Fellows.

College Council

Council, composed of Fellows and students, is the formal decision-making body of Liberal Arts College. It meets regularly under the chairmanship of the Principal as a forum in which current issues and future policy are discussed and decisions taken. Council is that body which ensures the democratic participation of all members of the College in its on-going academic and extra-curricular work.

Further information on core courses and College programmes generally should be obtained either by writing for the Liberal Arts College Informational Brochure or by calling the College Secretary (2030 Mackay St., Montreal, Quebec H3G 1M8, tel: 879-8051). Personal interviews with a Fellow of Liberal Arts College can be arranged through the Secretary.

PROGRAMMES

All Liberal Arts College students must take the Core Curriculum. These inter-related courses, including seminar and tutorial work as well as the final-year Integrative Seminar, constitute a significant segment of the course work required for College-sponsored B.A. programmes. Liberal Arts College stresses Honours work although a student may, with the permission of the College, combine the Core Curriculum with a departmental Specialization or Majors programme, or with the Individual Studies Programmes.

42 Liberal Arts College — Core Curriculum

Year I

18 LBCL C291[6], C292[6], C293[6]

Year II

12 Chosen from LBCL C391[6], C392[6], C393[6]

Year III

6 LBCL C490[6]

6 Chosen from LBCL C391[6], C392[6], C393[6]

In addition to completing the Core Curriculum, students must meet the Faculty of Arts and Science degree requirements and complete a departmental Major, Specialization or Honours programme, or the Individual Studies Programmes of the Centre for Interdisciplinary Studies.

The Core Curriculum may also be applied towards Specialization or Honours work in the Individual Studies Programme. (See Section 31.19.6. of this calendar).

All College students must consult with a College adviser before selecting courses in other disciplines or fields. Generally courses in the Liberal Arts College are open only to members of the College.

Honours candidates must maintain a B average in their College courses with no grade lower than a C. Students in a Majors or Specialization programme must maintain a C average in their College courses with no grade lower than a D.

Admission into a Departmental Honours Programme requires the approval of the Department.

Students seeking admission to a Departmental Honours Programme will be bound by the Honours requirements outlined in 16.2.4 of this calendar.

COURSES

LIBERAL ARTS COLLEGE C291
Structure and Dynamics of Western Civilization

Prerequisite: Registration in the Liberal Arts College or permission of the College. A study of the changing relations between productive structures, socio-political institutions and cultural traditions from antiquity to the present. This course emphasizes the analysis of social change over time, and requires reading in a variety of primary sources such as Aristotle's *Politics,* Aquinas' *Summa Theologiae* and Rousseau's *Discourse on Inequality,* and works such as Marc Bloch's *Feudal Society,* C. B. Macpherson's *Possessive Individualism* and F. Neumann's *Behemoth* will be read. (6 credits)

LIBERAL ARTS COLLEGE C292
Modes of Expression and Interpretation

Prerequisite: Registration in the Liberal Arts College or permission of the College. A survey of major Western literary, religious and philosophical traditions, involving the reading and interpretation of significant primary texts from antiquity to the contemporary period. Emphasis is placed on development of writing skills and interpretive analysis. Works such as the *Odyssey,* Plato's *Symposium,* Goethe's *Faust* and Dostoievsky's *Crime and Punishment* will be studied. (6 credits)

LIBERAL ARTS COLLEGE C293
Art and Aesthetic Experience

Prerequisite: Registration in the Liberal Arts College or permission of the College. An integrated course in the nature and development of music and the visual arts, with work in criticism and aesthetic theory. The course examines artistic expressions through thematic and chronological approaches and includes attention to issues concerning the creative process and the relation of art to society. Slide viewing and music listening are part of the course. (6 credits)

LIBERAL ARTS COLLEGE C391
Contemporary Civilization

Prerequisite: Liberal Arts College C291, C292, C293 or permission of the College. Analysis of the dynamic relations between individual, state and society in the recent and contemporary world. Classical perspectives and contemporary analyses derived from the social sciences will be brought to bear on selected social, economic, ideological and political problems. Students will read from such works as D. Ricardo's *Principles of Political Economy,* M. Weber's *Economy and Society,* D. Landes' *Unbound Prometheus,* S. Freud's *Interpretation of Dreams,* and Hannah Arendt's *On Revolution.* (6 credits)

LIBERAL ARTS COLLEGE C392
The Sciences in Society

Prerequisite: Liberal Arts College C291, C292, C293 or permission of the College. An introduction to the nature, development, organization and social consequences of the scientific enterprise. Issues in the philosophy, sociology and history of science, as well as in the relation of technology to science and to society, are emphasized. Laboratory exercises are an integral part of the course. Works such as Bernal's *Science in History,* Watson's *Double Helix,* and Einstein and Infeld's *Evolution of Physics* will be read, as well as a number of original sources like Aristotle's *Physics* and Darwin's *Origin of Species.* (6 credits)

LIBERAL ARTS COLLEGE C393
Contemporary Modes of Expression and Interpretation

Prerequisite: Liberal Arts College C291, C292 and C293 or permission of the College. An advanced seminar organized on a topical and thematic basis and emphasising intensive, sustained analysis of a limited number of fundamentally important literary, religious, and philosophical works. Stress is placed on bringing critical and interpretive approaches to bear on the texts in a series of extended written papers. It permits the requisite sustained analysis of authors such as Hegel, Kierkegaard, Mann and Joyce. (6 credits)

LIBERAL ARTS COLLEGE C490
Integrative Seminar

Prerequisite: Two of Liberal Arts College C391, C392, C393 or permission of the College. The College research seminar will relate the student's disciplinary or area specialization to the general perspectives of the Liberal Arts College Core Curriculum. The seminar topic will vary from year to year and students will be required to produce a significant research paper. (6 credits)

31.120 Lonergan University College

Principal
S. McEVENUE, *Associate Professor, Theological Studies*

Fellows
G. ADAMS, *Associate Professor, History*
B. BLOOMSTONE, *Lecturer, Theological Studies*
C. DAVIS, *Professor, Religion*
M. DOUGHTY, *Associate Professor, Chemistry*
M. FAHEY, *Associate Professor, Theological Studies*
M. GERVAIS, *Associate Professor, Communication Studies*
F. HAYES, *Associate Professor, Economics*
J. McGRAW, *Associate Professor, Philosophy*
P. MORLEY, *Associate Professor, English and Canadian Studies*
D. O'CONNOR, *Associate Professor, Philosophy*
E. PRESTON, *Associate Professor, Classics*
M. SHAMES, *Associate Professor, Psychology*

Visiting Fellow
P. McSHANE, *Professor, Philosophy, Mount St. Vincent, Halifax*

General Philosophy

Lonergan University College is named after Dr. Bernard Lonergan, a former student and then professor of Loyola College, Montreal, who has since moved on to an international career. He is recognized throughout the Western world as one of the most significant thinkers of this century.

The Fellows of Lonergan University College are convinced that the deepest issues of life are implicitly involved in all the academic disciplines and that both honesty and sanity demand that we attend to this fact and reflect upon it. The College is not governed by any religion or church, but is directly concerned with human aspirations, with ultimate values, and with the attempts of human institutions to serve this vitality. It asks questions that arise at the authentic centre of humanity, questions about meaning, about soul, about the spiritual, about God.

Lonergan University College offers its students all the resources of Concordia University. Lonergan students take a regular degree programme in the department of their choice on either of the two campuses of Concordia University. Moreover, the College aims to contribute to a style of life which will heighten intellectual experience and enrich personal growth during the student's university years. It does this, not by claiming to "raise standards" but rather by demanding that its students relate what they learn to their personal lives and deeper values.

A university is the place where the universe should be discussed and intellectually appropriated. Conversation, as much as courses or research, is at the heart of university life. It is precisely this aspect of university life that has been undermined in this century by the incredible growth in knowledge itself, and by the proliferation of specialties. What universal knowledge is now possible? What do students have in common to discuss?

Lonergan University College believes that there is something in common to be discussed, and dedicates its resources to assure the depth and vitality of that discussion. It involves all its members, both students and Fellows, in structured conversation which will grow in breadth and meaning through the three years of a student's university career.

Objectives

The immediate objective of Lonergan University College is to provide for and demand a healthy university life for its students and Fellows. The College courses and seminar and social environment all stress interaction with the intent of bringing students to the wholeness of life and knowledge.

It is our belief that university life is an important phase of personal growth: a time when one consciously assimilates what is deepest in oneself, defines one's personal values, and sets worthwhile goals in life. Contributing to this growth is the immediate objective of Lonergan University College.

A broader objective of Lonergan University College is to form a centre for the renewal of our culture. We perceive Quebec, and in particular Montreal, as a unique cultural centre, with strong religious roots (especially Catholic, Protestant, Jewish) and with vibrant ethnic communities which have been involved over decades in a political and cultural interchange of great intensity. Lonergan University College consciously attempts to marry the intellectual and the vital. In adopting Lonergan as a name, it acknowledges a "general systems theory" in which not only the diverse academic disciplines can speak to each other, but also human aspiration may grow. Lonergan students, coming alive together in their diversity, will hopefully form a nucleus of renewed life in Quebec.

PROGRAMMES

The normal degree requirements of the Arts and Science Faculty of Concordia University govern students of Lonergan University College.

1. All students of the College will be enrolled in a Major, Specialization or Honours programme in the department of their choice.

2. Each year students are required to attend the College seminar. (3 credits each year — total of 9 credits required).
3. The College plans to offer two six-credit courses each year. The topics will be chosen from any one of the disciplines of the Arts and Science Faculty, and will be treated with particular attention to implied ultimate values to socio-ethical dimensions and to other aspects of concern. Each student will be required to take at least one such College course during the three-year programme. (6 credits required)
4. Beyond the requirements listed above, students will complete their programme with "elective courses". These are chosen by the student in consultation with a faculty adviser who will be a Fellow of Lonergan University College. The College will provide a list of courses which it finds especially relevant to its own perspectives.

15 Lonergan University College: Required Curriculum

9 LUCC C302[3], C304[3], C306[3]

Students will normally participate in the College Seminar, under the course designations listed above, in each successive year of their programme. Part-time students, and students attending the University for more than a three year period, must register for the College Seminar in three of their years of study.

6 Chosen from LUCC C320[6], C326[3], LUCC C340[6], C346[3], LUCC C360[6], C366[3]

For this required course, students may substitute a course (or two half courses) which has been "adopted" by LUC from a Departmental offering, and cross-listed as a College offering.

Students must meet the Faculty of Arts and Science degree requirements and complete a departmental Major, Specialization or Honours programme.

All College students should consult with a College adviser in selecting "elective" courses in other disciplines and fields.

The College Seminar is open only to members of the College. College courses will admit students who are not members if places are available once members have selected their courses.

College Facilities and Activities

The College, situated on the Loyola Campus of Concordia University at 7302 Sherbrooke St. W., provides appropriate office and lounge space.

The College is governed by a set of by-laws and by a College Council composed of students and Fellows.

Each year the Council will select a major work which has significantly affected the direction of Western Culture. An internationally recognized scholar will be invited to come to Lonergan University College as the Visiting Fellow and to lead the College Seminar. The Visiting Fellow will give university lectures and public addresses as seems appropriate.

Each student of Lonergan University College will join with a small number of students to form a seminar group. College Fellows will direct the seminar, and be available for academic advising to all students. These groups will meet for two hours every second week. It is expected that continuous participation over a three-year period will ensure a stimulating experience and an ever increasing depth of understanding.

Students and Fellows will be encouraged to share in College government, to participate in College events, and in various ways to make the College the centre of their lives at the University.

Students and Fellows will also be members of academic Departments. Competence and excellence in specific academic disciplines is an essential contribution to the ongoing conversation at Lonergan University College.

Admissions and Applications

Applicants may write to the Principal, Lonergan University College, Concordia University, 7141 Sherbrooke Street West, Montreal, Quebec H4B 1R6. The letter should contain a reflective statement about why the applicant has chosen Lonergan University College.

The University will send appropriate forms for the student to fill in, and will request transcripts. These will be processed by the University Admissions Office to establish the academic standing of the student. Each candidate for admission will be invited to an interview with one of the College Fellows.

COURSES

LONERGAN UNIVERSITY COLLEGE C302
College Seminar I

Prerequisite: Permission of the College. The seminar will focus on a small number of great works central to our civilization. Different works will be selected each year, ranging from Plato's *Republic* to Bergman's films. Seminar members will examine these works in the appropriate intellectual contexts. Further goals will be a personal dialectic with these works in so far as they imply values. (3 credits)

LONERGAN UNIVERSITY COLLEGE C304
College Seminar II

Prerequisite: Permission of the College. The seminar will focus on a small number of great works central to our civilization. Different works will be selected each year, ranging from Plato's *Republic* to Bergman's films. Seminar members will examine these works in their appropriate intellectual contexts. Further goals will be a personal dialectic with these works in so far as they imply values. (3 credits)

Students who have completed C302 will register under C304.

LONERGAN UNIVERSITY COLLEGE C306
College Seminar III

Prerequisite: Permission of the College. The seminar will focus on a small number of great works central to our civilization. Different works will be selected each year, ranging from Plato's *Republic* to Bergman's films. Seminar members will examine these works in their appropriate intellectual contexts. Further goals will be a personal dialectic with these works in so far as they imply values. (3 credits)

LONERGAN UNIVERSITY COLLEGE C320
Topics in the Humanities I

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Humanities, from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (6 credits).

LONERGAN UNIVERSITY COLLEGE C322
Topics in the Humanities II

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Humanities, from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (6 credits).
NOTE: Students who have completed LUCC C320 may register for LUCC C322 providing the subject matter is different.

LONERGAN UNIVERSITY COLLEGE C326
Topics in the Humanities III

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Humanities, from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (3 credits).

LONERGAN UNIVERSITY COLLEGE C328
Topics in the Humanities IV

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Humanities, from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (3 credits).
NOTE: Students who have completed LUCC C326 may register for LUCC C328 providing the subject matter is different.

LONERGAN UNIVERSITY COLLEGE C340
Topics in the Social Sciences I

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Social Sciences from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (6 credits).

LONERGAN UNIVERSITY COLLEGE C342
Topics in the Social Sciences II

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Social Sciences from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (6 credits)
NOTE: Students who have completed LUCC C340 may register for LUCC C342 providing the subject matter is different.

LONERGAN UNIVERSITY COLLEGE C346
Topics in the Social Sciences III

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Social Sciences from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (3 credits).

LONERGAN UNIVERSITY COLLEGE C348
Topics in the Social Sciences IV

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Social Sciences from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (3 credits).
NOTE: Students who have completed LUCC C346 may register for LUCC C348 providing the subject matter is different.

LONERGAN UNIVERSITY COLLEGE C360
Topics in the Natural Sciences I

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Natural Sciences, from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (6 credits).

LONERGAN UNIVERSITY COLLEGE C362
Topics in the Natural Sciences II

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Natural Sciences, from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (6 credits).
NOTE: Students who have completed LUCC C360 may register for C362 providing the subject matter is different.

LONERGAN UNIVERSITY COLLEGE C366
Topics in the Natural Sciences III

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Natural Sciences, from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (3 credits).

LONERGAN UNIVERSITY COLLEGE C368
Topics in the Natural Sciences IV

Prerequisite: Permission of the College. Courses offered under this title will investigate appropriate topics in the Natural Sciences, from an interdisciplinary perspective, and generally in the context of philosophical and religious concerns. (3 credits).
NOTE: Students who have completed LUCC C366 may register for LUCC C368 providing the subject matter is different.

31.125 School of Community and Public Affairs

Principal
B. WILLIAMS, *Associate Professor, Political Science*

Fellows
A. GOLLNER, *Vice-Principal, Assistant Professor, Political Science*
H. GUINDON, *Professor, Sociology and Anthropology*
A. JORDAN, *Associate Professor, French*
G. LECAVALIER, *Associate Professor, Sociology*
A. MELAMED, *Associate Professor, Urban Studies*
C. NISH, *Professor, History*
G. VALASKAKIS, *Associate Professor, Communication Studies*

Objectives of the School

The purpose of the School of Community and Public Affairs is to prepare candidates for positions either in the public service or as public affairs specialists in the private sector. This School will be of interest to students who are concerned with government relations or public affairs and wish to work in those areas. The School will also prepare students who wish to pursue post-graduate work in public affairs or administration.

The object of the School is to produce graduates with a high degree of expertise who are employable at the municipal, provincial, national or international levels. There will be an attempt to blend vocational and scholarly values so as to produce graduates who are well educated in a broad sense.

Students enrolled in the School will benefit from a unique combination of the following components:

1) an internship programme within which students will receive credit for working in a public affairs related job;
2) a bilingual (French-English) environment within which to pursue their studies;
3) a combination of a major, specialization or honours in a discipline (History, Sociology, etc.) with what is essentially a multidisciplinary programme;
4) a common institutional setting for colloquia, discussion and study relevant to community and public affairs.

The School Programme

In general terms students who enrol in the School will follow a curriculum made up of three elements.

1) There will be a core, drawn from a number of related disciplines (Political Science, History, Economics, Sociology, etc.) which will provide basic courses common to all candidates.
2) Each candidate will choose a field which represents his or her area of community and public affairs. The four fields from which a candidate may choose are community and public affairs at the (1) local, (2) provincial, (3) national and (4) international levels.
3) At the same time candidates may pursue an honours, specialization or major programme in any one of the following disciplines: Political Science, History, Economics, Sociology, Urban Studies, Canadian Studies, Translation, or a Certificate in Community Services.

Entrance Requirements

Students admitted to the University and seeking to enter the School must have achieved a B average or the equivalent at the previous educational level. Students who wish to enter the School will be interviewed personally. In exceptional circumstances, a candidate who has failed to meet the grade requirement will be admitted on the basis of a personal evaluation of potential capacities as against those realized in previous studies. Each student enrolled in the School would have to demonstrate a working knowledge of English and French. Language proficiency tests will be administered by the relevant language department but final evaluation is the responsibility of the School.

For further information on curriculum, programmes, personnel and objectives, please contact Blair Williams, Principal at 879-8507.

COURSES

SCHOOL OF COMMUNITY AND PUBLIC AFFAIRS C400
Advanced Seminar

Prerequisite: Permission of the School of Community and Public Affairs. Under the direction of the Resident Fellow the Seminars, which will be presented by practicing professionals drawn from public or private agencies, will consist of a series of "modules" of approximately 3 weeks duration. The modules will be problem oriented and will focus on specific functions and areas in public affairs in order to equip students with a range of skills needed to pursue careers in the field. Topics will vary from year to year and may include: Leadership, Decision-Making, Budgeting, Programme Evaluation, Human Resource Development, Motivation, Conflict resolution, Planning and Forecasting, Ethics and Public Choice, Intergovernmental Relations. (6 credits)

SCHOOL OF COMMUNITY AND PUBLIC AFFAIRS C410
Internship

Prerequisite: Permission of the School of Community and Public Affairs. All students of the School must serve one semester during the second or final year of study as apprentices in a job relevant to their area of Specialization. After consulting with employers and tutors, students will select a topic or problem relevant to the function they will perform during their internship. They will undertake such research and analysis as may be required by the nature of the topic and will submit their findings in a written report at the end of the internship period. Successful completion of the course will involve an oral presentation and defense of the report before a panel drawn from Fellows and Associates of the School. (6 credits)

SCHOOL OF COMMUNITY AND PUBLIC AFFAIRS C400
Advanced Seminar I

Prerequisite: Permission of the School of Community and Public Affairs. Under the direction of the Resident Fellow, the Seminars, which will be presented by practicing professionals drawn from public or private agencies, will consist of a series of "modules" of approximately 3 weeks duration. The modules will be problem oriented and will focus on specific functions and areas in public affairs in order to equip students with a range of skills needed to pursue careers in the field. Topics will vary from term to term and may include: Leadership, Decision-Making, Budgeting, Programme Evaluation, Human Resource Development, Motivation, Conflict resolution, Planning and Forecasting, Ethics and Public Choice, Intergovernmental Relations. (3 credits)

SCHOOL OF COMMUNITY AND PUBLIC AFFAIRS C401
Advanced Seminar II

Prerequisite: SCPA C400 and permission of the School of Community and Public Affairs. A student who has completed SCPA C400 Advanced Seminar I may register for SCPA C401 Advanced Seminar II for credit. (3 credits)

SCHOOL OF COMMUNITY AND PUBLIC AFFAIRS C410
Internship

Prerequisite: Permission of the School of Community and Public Affairs. During the second or final year of study (normally during the summer) all students must serve as apprentices in a job relevant to their area of specialization. After consulting with employers and tutors, students will select a topic or problem relevant to the function they will perform during their internship. They will undertake such research and analysis as may be required by the nature of the topic and will submit their findings in a written report at the end of the internship period. (6 credits)

31.127 Science College

Principal
E. B. NEWMAN, *Professor, Biological Sciences*

Fellows
E. MALY, *Associate Professor, Biological Sciences*
S. MULLET, *Assistant Professor, Philosophy*
R. C. SHARMA, *Associate Professor, Physics*
J. STEWART, *Professor, Psychology*
R. WESTBURY, *Associate Professor, Chemistry*

In the Science College, students will gain an understanding of several areas of science, while specializing in whichever one they choose. Curricular structures frequently restrict students to one discipline or another. To help overcome this, the Science College has designed a series of courses to show what practising physicists think about physics; what mathematicians do when they are thinking mathematics: — not "an introduction to" but "the state of the art".

The Science College provides an opportunity for students to become acquainted with science as practised and understood by scientists today. Its curriculum is planned to allow students to specialize in any one of the disciplines of science, while at the same time fulfilling the goal of the College — to provide an opportunity for research experience, for thinking about the nature of science, and for becoming aware of the style and content of the various scientific disciplines.

In the Science College, students will have the opportunity to participate in research. In order to introduce our students to the reality of scientific research, a programme of independent study has been designed which will allow our students to be involved in research in each of their university years.

In the Science College, students will be provided with an opportunity to consider the nature of science. The Science College offers courses in the intellectual and social context of science. Designed for science students in particular, they raise questions of interest to scientists based upon an understanding of the subject matter of science.

Facilities

The College has its own premises located on the twelfth floor of the Hall Building at the downtown Sir George Williams Campus. The College offers students the opportunity and facilities to discuss matters of interest amongst themselves and with professors. The Science College also offers a number of courses and invites scientists to visit the University to meet College students.

Requirements for Admission to the Science College

The programme of the Science College is academically demanding, involving concentration in one discipline and a critical investigation of other aspects of science. The College is committed to serious academic work and high standards, and is planning to attract talented students who are willing to work hard in a search for an understanding of science.

The Science College represents a new departure at Concordia's downtown campus. Students must enrol in a science programme that leads to a B.Sc. degree to be part of the Science College. Students registered for a B.A. in Journalism are also eligible for membership in the College.

In addition to the normal University requirements for admission to its various programmes, applicants are expected to have a good academic average. They will be considered on the basis of their academic record, and a personal interview. They are also encouraged to submit an example of their own work for consideration.

Students must be prepared to attend courses at times outside the normal University schedule. The College is open to full-time students only.

Science College and Journalism

A limited number of students who have been admitted to the Major in Journalism programme may be allowed to register in the Science College, with a view to combining a basic understanding of science with a training in journalism. For such students, a second six-credit course in the historical, philosophical and social aspects of science will be offered. Other members of the College will have the option of taking this course if they so desire.

Performance Requirement

Students in the College must maintain a "B" average in courses offered by the College with no grade lower than a "C".

Further Information

Further information on the courses and activities of the Science College can be obtained either by writing to:

Concordia University
Science College
Room H-1260
1455 de Maisonneuve Blvd. West
Montreal, Quebec H3G 1M8

or by telephoning the College office — 879-4160. Personal interviews with a Fellow of the Science College may be arranged through the College office.

Science College Core Curriculum

The College offers a core of courses which are required of all students. This core consists of 30 of the 90 credits normally required for a B.Sc. degree. These courses have been developed specifically for the College. The core courses have been developed with the intention to provide a unique integrated programme of education in science.

PROGRAMMES

In addition to completing the Core Curriculum students are responsible for satisfying their particular degree requirements by completing a departmental honours, specialization or major programme leading to a B.Sc.

The superscript indicates credit value.

30 Science College Curriculum

3 SCOL C200^3
9 Chosen from SCOL C250^3. C251^3, C252^3, C253^3
12 SCOL C290^3, C390^3, C490^{6*}
6 Chosen from SCOL C270^6. C271^6

Additionally all science college students are required to attend the college seminars held once weekly. College students will be expected to act as tutors for students in their departments for two hours per week in two of their three years in the university.

* *Students may replace SCOL C490^6 with a Departmental Honours Thesis (6 credits) or the equivalent.*

COURSES

SCIENCE COLLEGE C200
Topics for Multidisciplinary Study

Prerequisite: Membership in the Science College or permission of the College. The purpose of this course is to introduce students to the multiple levels at which a scientific problem can be understood. They will have the opportunity to study the interplay between scientific disciplines, the factors that distinguish the dominant approaches in each field, and the common qualities of the sciences that mark them as part of the same enterprise. The course will take one or more topics and analyze them from the viewpoint of various disciplines. Representatives of the disciplines will lecture on the different aspects. The unique contribution made by each field to the understanding of a problem will in this way become apparent. (3 credits).

SCIENCE COLLEGE C250
Survey of a Scientific Discipline I

Prerequisite: Membership in the Science College or permission of the College. This course will survey one or two disciplines, these to include biology, chemistry, geology, computer science, engineering, mathematics, physics and psychology. The form of the course may vary according to the particular discipline. The goal is to indicate the nature of the problems dealt with by a discipline at present and in the recent past, its characteristic style(s) of analysis and the directions in which it seems to be headed. (3 credits).

SCIENCE COLLEGE C251
Survey of a Scientific Discipline II

Prerequisite: Membership in the Science College or permission of the College. A student who has completed SCOL C250 registers for SCOL C251. (3 credits).

SCIENCE COLLEGE C252
Survey of a Scientific Discipline III

Prerequisite: Membership in the Science College or permission of the College. A student who has completed SCOL C251 registers for SCOL C252. (3 credits).

SCIENCE COLLEGE C253
Survey of a Scientific Discipline IV

Prerequisite: Membership in the Science College or permission of the College. A student who has completed SCOL C252 registers for SCOL C253. (3 credits).

SCIENCE COLLEGE C270
Historical, Philosophical and Social Aspects of Science I

Prerequisite: Membership in the Science College or permission of the College. This course will discuss the intellectual framework of science, and the relationships between science and society; the political and philosophical questions inherent in the scientific process. This course is primarily intended for science students and will rely heavily on primary sources. Students will be expected to understand the scientific issues at the level at which they were originally expressed. (6 credits).

SCIENCE COLLEGE C271
Historical, Philosophical and Social Aspects of Science II

Prerequisite: Membership in the Science College or permission of the College. A student who has completed SCOL C270 may register for SCOL C271.

SCIENCE COLLEGE C290
Independent Study I

Prerequisite: Membership in the Science College or permission of the College. The student will work under the supervision of a member of the faculty on either a practical laboratory project, or a literature study. A formal written report will be required. (3 credits).

SCIENCE COLLEGE C390
Independent Study II

Prerequisite: Membership in the Science College or permission of the College. A student who has completed SCOL C290 registers for SCOL C390. Students will be encouraged to work in a different field from that of their SCOL C290 project. (3 credits).

SCIENCE COLLEGE C490
Independent Study III

Prerequisite: Membership in the Science College or permission of the College. A student who has completed SCOL C390 registers for SCOL C490. Students will be encouraged to work in a different field from that of their SCOL C290 and C390 projects (6 credits).

31.130 The Simone de Beauvoir Institute

Principal
M. VERTHUY, *Associate Professor, French*

Associate Principals
R. TOBIAS, *Professor, English*
M. L. SQUIRES, *Assistant Professor, Bio-Physical Education*

Tutors
R. BELKIN, *Associate Professor, English*
J. BENNETT, *Reference Librarian*
K. CHAN, *Assistant Professor, Psychology*
S. DRYSDALE, *Associate Professor, Sociology*
M. EUVRARD, *Associate Professor, French*
S. FRENCH, *Dean, Graduate Studies*
D. GOLD, *Associate Professor, Psychology*
E. HENRIK, *Assistant Professor, Psychology*
S. McDONOUGH, *Professor, Religion*
P. MORLEY, *Associate Professor, English*
D. PLUMMER, *Counsellor, Guidance Services*
V. STRONG-BOAG, *Assistant Professor, History*
R. TEKEL, *Lecturer, Women's Studies*
M. VIPOND, *Associate Professor, History*

Founded in 1978 to promote the understanding of the historical and contemporary situation of women in society, the Simone de Beauvoir Institute of Concordia University helps women to discover and develop their potential, both by its academic base in Women Studies and by its co-curricular activities.

The name Simone de Beauvoir is evocative. Madame de Beauvoir has had a distinguished career in various fields of activity. Her original training in philosophy has led her to become one of the important existentialist thinkers of the twentieth century. Because existentialist philosophy is necessarily one of action, her life has also been a long involvement with and commitment to the reshaping of our society. This has been achieved both through her writings (novels, essays, pamphlets, memoirs, etc.) and through direct action (the French Resistance movement, political organizations, various human rights groups, etc.). She is, in particular, the author of *The Second Sex*, a book generally considered to be the cornerstone of contemporary research into the nature of women in all its aspects. We are honoured that Simone de Beauvoir has authorized us to use her name and has expressed great interest in being informed of our current and future activities.

Membership in the Institute is open to women and men, and our current membership includes over 150 students varying in age from 18 to 72, bringing to us very different academic and life experience.

Students

Student members will remain within the mainstream of university life. Membership is open not only to those, men and women, who wish to take the Major, Minor or Certificate in Women's Studies (please consult Section 31.34 for a description of these programmes), but also to those registered for the General Certificate in Arts and Science or for an Honours, Major, Specialization or Minor in any programme or department of the Faculty of Arts and Science. The detailed criteria for membership may be obtained from the Institute.

The students will vary in age, work experience, living situations and academic backgrounds. We envisage the Institute serving the many CEGEP students who want to continue their studies in this new field. In addition, there will be many mature students who wish to return to school after years away. Some women may have already completed a B.A. but wish to update their degree courses in such areas as Women's History, Women's Literature, or Psychology, which were not available when they went to university. Others may never have had the opportunity to finish a degree and would like to renew this process of self-education. Still further, there are career women who might wish to study an element of Women's Studies which would be helpful in their work. Courses on Women and the Law, Sex-Role Socialization in Education, or Economics of Discrimination might be appropriate for them. Finally, there will be many men students who are interested in studying Women's History or the changing contemporary situation in regard to sex roles and sex identity; they are welcome to become members of the Institute and take part in its programmes, structures and educational environment.

Structures

Although the Tutors are chiefly responsible for the administration of the Institute, mechanisms have been devised whereby all members (full and part time faculty, staff and students) participate in the decision-making processes. The members are expected to contribute to the para-academic life of the Institute, although the degree of involvement is left to the individual to define. This is particularly important in the light of the diverse nature of our membership.

Academic Criteria

Students should consult with the Principal of the Simone de Beauvoir Institute and the Coordinator of the Women's Studies Programme (See Section 31.34) in order to establish the specific academic requirements for membership in the Institute.

Academic Resources — Faculty Tutors

The Tutors are mainly professors who have been involved in research and teaching in Women's Studies for several years. They come from various disciplines within the Arts and Science Faculty. In addition, there are Tutors who have been involved in developing innovative, interdisciplinary methodology appropriate to Women's Studies. On each campus there will be some Tutors in residence at the Institute. Other Tutors will remain in their own departments, but will maintain close ties with the Institute through advising students and participating in the decision-making structures.

Para-Academic Resources — Advisers

Besides offering the academic means for analyzing women's roles in society by way of its Women's Studies curriculum, the Institute will encourage students to develop the individual and group strengths necessary for promoting social and personal change. Students will benefit from extra-curricular workshops designed to permit them to test their learning in experience. It is also important that students receive training in dealing with the conflicts and pressures accompanying contemporary changes in women's roles. To this end, the Institute will work closely with professional and non-professional staff from the offices of Guidance, Health Services, the various libraries, Manpower, Dean of Students, Learning Development, Audio-Visual, and the Lacolle Centre. In addition to the academic counselling available from the faculty tutors, para-academic counselling will also be available.

Location

The main centre for the Institute is at present on the Sir George Williams Campus at 2170 Bishop Street. It includes Faculty and secretarial offices, a lounge, a reading and a seminar room; there is also a resource centre on the Loyola Campus at 7079 Terrebonne Avenue.

COURSES

Note: The Women's Studies Programme is not at this point administered by the Institute. The Coordinator of the Programme is appointed by and directly responsible to the Provost of Division IV of the Faculty of Arts and Science. She is assisted in her task by a Steering Committee. For your convenience, we are listing here the courses included in the Women's Studies Programmes.

Classics

CLASSICS C254
Women in Classical Antiquity

Economics

ECONOMICS C397
Economics of Discrimination
Prerequisite: Economics C201, C203

Education

EDUCATION C321
Sex Role Socialization in the School

English

ENGLISH C249
Women in Literature I

ENGLISH C250
Women in Literature II

ENGLISH C251
Selected Topics in Literature
Written by Women I

ENGLISH C252
Selected Topics in Literature
Written by Women II

Français

FRANÇAIS C451
La Littérature québécoise au féminin
Préalable: Français C251

FRANÇAIS C476
La Littérature au féminin I
Préalable: Français C320 ou C322 ou C271

FRANÇAIS C477
La Littérature au féminin II
Préalable: Français C320 ou C322 ou C271

History

HISTORY C318
Women in Western History

Philosophy

PHILOSOPHY C230
Human Identity

Political Science

POLITICAL SCIENCE C334
Woman and the Law

Psychology

PSYCHOLOGY C390
Sexual Differentiation
Prerequisite: Psychology C200 or equivalent

Religion

RELIGION C333
Women in Religion I

RELIGION C334
Women in Religion II

Sociology

SOCIOLOGY C372
Sociology of Sex Roles
Prerequisite: Sociology C200

Theological Studies

THEOLOGICAL STUDIES C471
Women and Christianity

THEOLOGICAL STUDIES C472
The Feminine and the Female in Contemporary Christian Theology

Women's Studies

WOMEN'S STUDIES C290
Woman's Identity and Image: Historic Attitudes

WOMEN'S STUDIES C291
Woman's Identity and Image: Recent Approaches

WOMEN'S STUDIES C390
Selected Topics in Women's Studies I

WOMEN'S STUDIES C391
Selected Topics in Women's Studies II

WOMEN'S STUDIES C392
Social Change: Women in Modern Society I

WOMEN'S STUDIES C393
Social Change: Women in Modern Society II

WOMEN'S STUDIES C491
Seminar in Women's Studies I

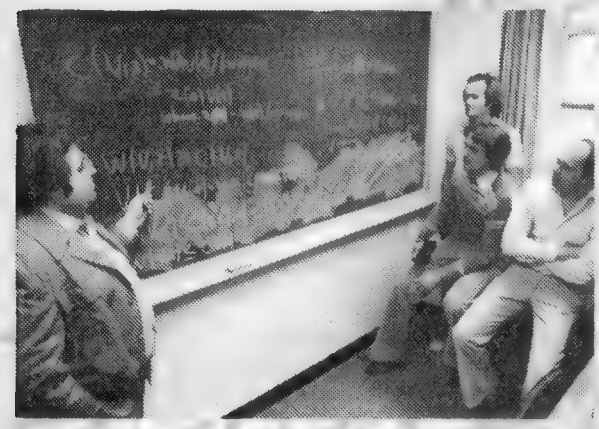
WOMEN'S STUDIES C492
Seminar in Women's Studies II

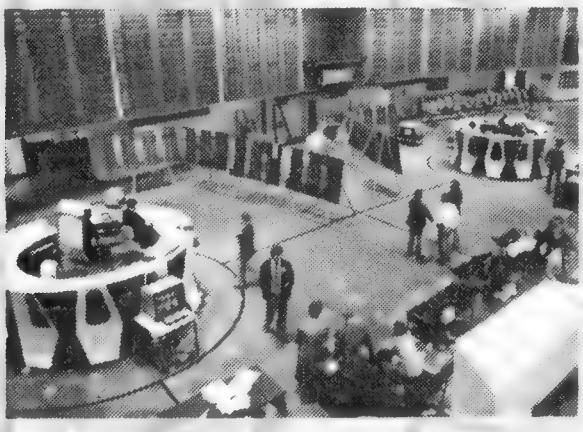
Language/Langue

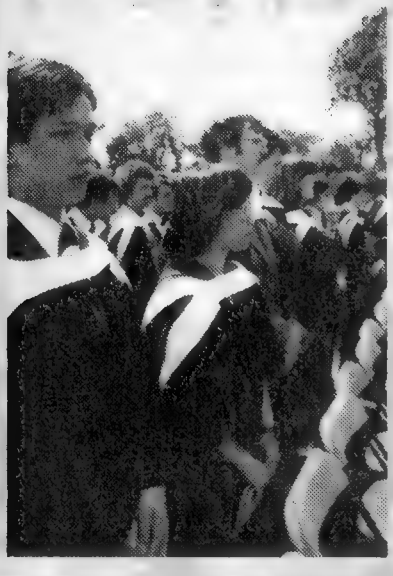
Les réglements actuels permettent à tout/e étudiant/e d'écrire ses devoirs ou examens en anglais ou en français dans tous les cours offerts, à l'exception des cours de langue. La langue d'enseignement sera normalement l'anglais.

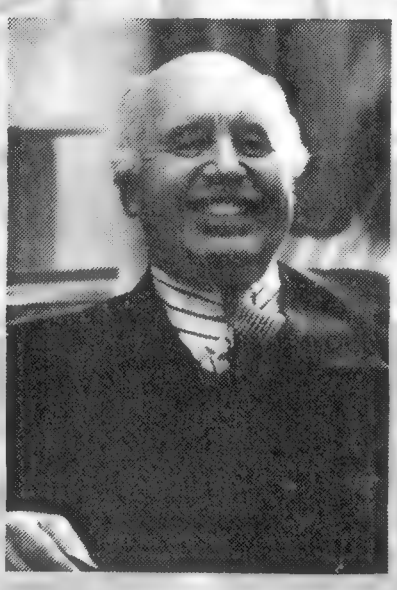
Non-francophone students may equally submit assignments in English in Français C476, C477 and C451 as long as they are taking the course for credit in Women's Studies or as an elective and not as part of a programme of the French Department.

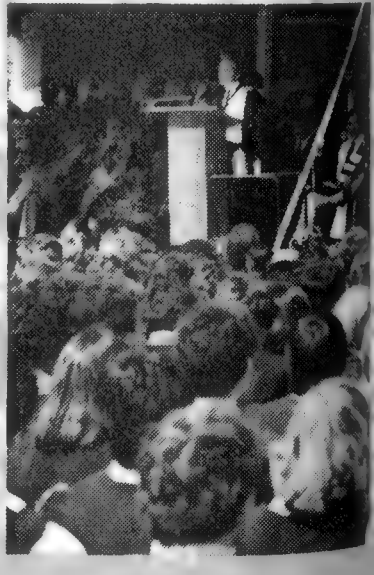
The Institute is studying the possibility of eventually offering courses in language learning through the medium of Canadian writings on or by women. Both French and English language learning courses based on this principle are planned.











61 Faculty of Commerce and Administration

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61.16 COMMERCE & ADMINISTRATION CONSULTATIVE COMMITTEE

61.1 Commerce & Administration

Dean
PIERRE SIMON

Associate Deans
ROBERT CURNEW *(Academic and Administration)*
ROLAND WILLS *(Academic Programmes and Student Affairs)*

Members of the Commerce & Administration Consultative Committee are listed in 61.16

61.2 Admission Requirements

General admission requirements are listed in § 13

Specific requirements for admission to the Faculty of Commerce & Administration for students in CEGEP are Math 101, 103, 105, 203 or equivalent. Arrangements will be made in the first-year programme to give special instruction to those students who lack adequate mathematical preparation.

61.2.1 BACHELOR DEGREE PROGRAMMES

The faculty of Commerce and Administration offers two distinct Bachelor programmes. The *Bachelor of Commerce (BComm)* degree is the more structured "professional" type programme in which the student will select a Major from those offered in Commerce or Economics. The *Bachelor of Administration (BAdmin)* degree is a less structured "liberal" type programme which permits the student to pursue interests within or outside the Faculty and offers the possibility of complementing a fundamental grounding in Administration with minor concentrations in an area of interest. Degree requirements listed below apply to all students entering the programme on or after June 1, 1976.

61.2.2 CORE REQUIREMENTS

The required 51-credit core is identical for both programmes and comprises the following courses:

1st Year	Accountancy	C213
	Quantitative Methods	C243
	Economics	C201
	Management	C266
	Marketing	C213
	Accountancy	C218
	Quantitative Methods	C244
	Economics	C203
	Management	C213
	Finance	C314
2nd Year	Management	C475
	Quantitative Methods	C313
	Marketing	C350
	Management	C340
	Quantitative Methods	C314
	Finance	C315
3rd Year	Management	C460

NOTE: The student is responsible for following the correct sequence of courses required for the completion of a particular programme.

61.2.3 BACHELOR OF COMMERCE PROGRAMME

This programme provides the student with an education for business life. It is our intention to graduate students liberally educated about business. To accomplish this, we have designed a multi-disciplinary and interdisciplinary curriculum which is intellectually challenging.

The first year of the programme is intended to provide an informative accumulation of operational attitudes, skills and tools which form the base for the core concentration.

The core concentration in the second year attempts to give broad experience in all phases of business in a coordinated, analytical and reflective period of study. All the resources of the student's intellectual ability are combined with his interdisciplinary studies to analyze, formulate, judge, and solve challenging business situations.

The last year of the programme is intended to provide the student with an opportunity to immerse himself in an area of specialized study. In addition, the student participates in a course which is designed to test his ability to integrate his knowledge and to view the study of business as a whole.

In view of this design, all students must follow the sequence of the courses on the basis of an academic year as outlined in the curriculum. No student will be permitted to register for second or third year courses without having completed the courses of the first academic year.

Exceptions may be authorized in writing for valid reasons by the Dean or Academic Adviser.

Degree Requirements*

To obtain the degree of Bachelor of Commerce, all students are required to follow a Major Programme. A Major consists of at least 24 credits in the chosen discipline in addition to the required 51-credit core. The remaining credits are unrestricted electives

and may be selected to form a Minor programme if applicable. Major and Minor programmes are available in the following areas:

A more astringent performance level is to be required of all students registering for the first time in the Bachelor of Commerce or Bachelor of Administration degrees, effective June 1, 1980.

CONCORDIA FACULTY OF COMMERCE AND ADMINISTRATION

***Bachelor of Commerce**	**Major**	**Minor**
Accountancy	X	X
**Economics	X	
Finance	X	X
International Business		X
Management		
Administrative Management	X	X
Human Resource Management	X	
Personnel Management		X
Entrepreneurship & Small Business Management		X
Managerial Law		X
Marketing	X	X
Quantitative Methods	X	X
Data Processing	X	
Business Statistics		X
Management Operations Research		X
Business Systems		X
Production Systems		X

Students of this Faculty who elect to major in any of the disciplines of the Faculty or Economics will be enrolled in a Bachelor of Commerce degree programme.

***Bachelor of Administration**	**Specialization**	**Minor**
General Administration (60 credits)	X	
30 credits may be elected from any of the offerings of the University but at least 15 credits must be beyond the introductory level		X

Students will indicate their preferred field of concentration at the time of application for entry. It should be noted, however, that since the programme of study of the first year is common to all programmes, students may change to another programme, provided, of course, that the capacity of the programme permits it.

*Both degrees have a common core of 51 credits out of a total of 90 credits.

**Students may follow an Honours in Economics but they must get approval from the Arts and Science Faculty (Department of Economics).

61.2.4 BACHELOR OF ADMINISTRATION PROGRAMME

The Bachelor of Administration Programme is designed to develop problemsolvers and decision-makers in all walks of life.

A successful graduate is able to develop objectives and strategies, organize people and resources, direct an organization's activities and control these activities, and appraise objectives and strategies in the light of results.

The programme has been made flexible enough to allow a student to develop according to his own needs.

This programme provides the student with a fundamental grounding in administration and offers the opportunity to pursue varied interests among courses offered by the University.

Degree Requirements*

To obtain the degree of Bachelor of Administration, students are required to complete the 51-credit core and 9 elected credits from Commerce and/or Economics to complete the 60 credits required for specialization. The remaining 30 credits may be selected from any of the offerings of the University but at least half of these must be beyond the introductory level.

**A more astringent performance level is to be required of all students registering for the first time in the Bachelor of Commerce or Bachelor of Administration degrees, effective June 1, 1980.*

61.3 General Information

Old Credit Programme (Transition)

Students who have enrolled in a programme at this Faculty prior to June 1, 1976 will complete the programme as shown in the University Announcement 1975/76. for substitution of courses not offered in the new programme, students will consult with representatives of the respective departments.

Failures

Students are cautioned that a failure in a first term course will prohibit them from proceeding to a second term course for which the first is a prerequisite. Students who find themselves in this position must drop the second term course and register in a section of the failed course, if available.

There will be a course change period at the beginning of the second term at which time students falling in the above category must make arrangements with the Office of the Registrar for the necessary course changes.

NOTE: THERE ARE NO SUPPLEMENTAL EXAMINATIONS IN THE FACULTY OF COMMERCE AND ADMINISTRATION.

French Language

The business community, as well as governments, now express a preference for university graduates who are bilingual. We, therefore, advise all students to take advantage of the opportunities available during their years at this University to ensure that they are bilingual when they present themselves for employment upon graduation.

Courses/Non Commerce Students

Students not registered in the Faculty of Commerce & Administration, who wish to undertake any courses offered by the faculty, but do not have the stated prerequisites, must obtain permission in writing from the Student Request Committee, Faculty of Commerce, *prior to registration.*

61.4 Accountancy

Professor and Acting Chairman of the Department
L. BESSNER

Professors
A. DICKIE
H. MANN

Associate Professors
G. R. CURNEW
H. DAUDERIS
H. JENSEN
D. F. MACDONALD
E. B. MARKLAND
K. P. O'DAY
H. B. RIPSTEIN

Assistant Professors
C. DRAIMIN
M. GOLD
G. LOWENFELD
W. E. PIETZSCH
F. L. SBROCCCHI

Lecturers
J. B. FISHER
V. K. KALEVAR
C. H. LIEBMAN
D. PERRIGARD
A. VASIL

Special Lecturers
J. G. FINNIE
H. S. GREENSPON
R. LANN
F. ZWIRZ

61.4.1 PROGRAMMES

30 Major in Accountancy

3 ACCO C323
3 ACCO C325
3 ACCO C326
3 ACCO C403
3 ACCO C414
3 ACCO C429
3 ACCO C441
9 additional credits offered by the Department.

12 Minor in Accountancy

3 ACCO C323
3 ACCO C326
6 additional credits offered by the Department.

61.4.2 COURSE DESCRIPTIONS

ACCOUNTANCY C213
Financial I

This course examines the theory and practice involved in recording and reporting an organization's financial information for interested parties. It includes the preparation and analysis of financial statements. This course is required for all Commerce and Administration students and is recommended for non-Commerce and Administration students, particularly those considering graduate studies in business administration. (3 credits) *NOTE A/See § 200.2*

ACCOUNTANCY C217
Financial and Managerial

Prerequisite: Accountancy C213. This course is designed to develop, through verbal analysis of business cases, an understanding and skill in the preparation of statements for financial accounting purposes taking into account the needs of business management. The student must be able to analyze these statements and comment critically thereon. (3 credits) *Major and Honours students in Accountancy may not take this course for credits. NOTE A/See § 200.2*

ACCOUNTANCY C218
Managerial I

Prerequisite: Accountancy C213. This course is an introduction to the development of accounting information for purposes of control, decision making and the more efficient operation of the enterprise. (3 credits) *NOTE A/See § 200.2*

ACCOUNTING C220
An Accounting Approach to Management

This course is designed to cover certain major aspects of management related to the accounting process. These include: business organization; accounting concepts; financial statement analysis; management uses of accounting information; and, the effect of taxation on business decisions. (3 credits). *NOTE A/See § 200.2; Commerce and Administration students may not take this course for credits.*

ACCOUNTANCY C221
Accounting and Management

Prerequisite: Accountancy C220. This course is sequential to Accountancy C220, and examines in greater depth the areas covered in that course. (3 credits). *NOTE A/See § 200.2; Commerce and Administration students may not take this course for credits.*

ACCOUNTANCY C323
Intermediate I

Prerequisite: Accountancy C213. This course extends, at a senior level, the material covered in earlier courses, integrating the previous work with advanced theory and application. Intensive study is made of the theory and practice of external reporting by commercial and other entities. Concepts and procedures involved in the valuation of resources are studied, as are the concepts of income determination. (3 credits) *NOTE A/See § 200.2*

ACCOUNTANCY C325
Advanced

Prerequisite: Accountancy C326 previously or concurrently. This advanced course is primarily concerned with corporate combinations. A study is also made of other advanced accounting areas. (3 credits) *NOTE A/See 200.2*

ACCOUNTANCY C326
Intermediate II

Prerequisite: Accountancy C323. This course continues the intensive study of Intermediate 1 with particular emphasis on obligations, funds valuation statements and financial statement analysis. (3 credits)

ACCOUNTANCY C403
Cost and Management Accounting

Prerequisite: Accountancy C218 and C323. This course, based primarily on lectures and problem-solving, is directed to needs of students who contemplate careers in professional accounting as members of recognized accounting bodies. A detailed examination is made of the various techniques, systems and procedures applicable to the managerial use of accounting information for decision-making, profit-planning and control. (3 credits) *NOTE A/See 200.2*

ACCOUNTANCY C407
Accounting Practice and Policy

Prerequisite: Accountancy C323. Corequisite: Accountancy C326, C410, C429 and C432. Areas previously or concurrently covered in the field of corporate financial reporting are extended, and current accounting literature and pronouncements of professional accounting bodies are examined. (3 credits). *NOTE A/See § 200.2*

ACCOUNTANCY C410
Specialized

Prerequisite: Accountancy C326. In this course an examination is made of some of the specialized aspects of financial accounting. The course focuses on the application of accounting principles and theory to "unusual" business transactions and entitles. (3 credits).

ACCOUNTANCY C414
Information Systems and Control

Prerequisite: Accountancy C218. This course includes information systems theory, control theory and practice, responsibility accounting, and a survey of selected management science techniques. Through case analysis and discussions the interrelationships between information and control systems, managerial style and human behaviour are established. (3 credits) *NOTE A/See § 200.2*
NOTE: Introductory-level knowledge of computer systems is recommended.

ACCOUNTANCY C422
Cost and Management Accounting (Advanced)

Prerequisite: Accountancy C403. This course, through cases and problems, continues at an advanced level the study of modern cost and managerial accounting systems, and emphasizes the contemporary problems facing accountants, and their potential solutions by the use of sophisticated techniques. (3 credits) *NOTE A/See § 200.2*

ACCOUNTANCY C429
Analytical Auditing

Prerequisite: Accountancy C326. This course introduces auditing theory and its application by external and internal auditors in fulfilling their respective objectives and responsibilities. The focus is on the audit of transactions or procedures used by organizations. An analytical approach is used to discuss different accounting systems and to evaluate systems of internal control. The development and use of detailed audit procedures and audit programs is also covered. Cases and problem solving form the basis of student involvement in this course (3 credits) *NOTE A/See § 200.2*

ACCOUNTANCY C432
Financial Auditing

Prerequisite: Accountancy C429. This course emphasizes the role of the public accountant in expressing an opinion on the financial statements of an organization. The use of audit standards, procedures and internal control is related to the expression of an auditor's opinion. Cases and problems solving form the basis of student involvement in this course. (3 credits) *NOTE A/See § 200.2*

ACCOUNTANCY C433
Auditing and Investigation

Prerequisite: Accountancy C429. This course deals with questions related to professional accounting practices and also covers different types of management services that auditors are frequently requested to undertake. (3 credits) *NOTE A/See § 200.2*

ACCOUNTANCY C441
Taxation I

Prerequisite: Accountancy C213. This course examines the Canadian taxation structure. Emphasis is given to the income taxes levied on individuals, and includes the taxation of capital gains, employment, business and investment income. (3 credits) *NOTE A/See § 200.2*

ACCOUNTANCY C442
Taxation II

Prerequisite: Accountancy C441. This course extends the coverage of Accountancy C441 with a detailed examination of taxes on corporate incomes, and of corporate distributions. Sales taxes, succession duties and other tax areas are also examined. (3 credits) *NOTE A/See § 200.2*

ACCOUNTANCY C451
Computer Auditing

Prerequisite: Computer Science C211 or equivalent, and Accountancy C429. This course explores the impact of large scale computer use on the auditor and his examination of a company's records and systems

of internal control. The emphasis is on helping the auditor understand when a computer can be used to assist him and how to follow through with its use. Topics covered include the different controls and techniques required in a computer system, the audit trail, approaches to computer auditing and computer application for auditing, computer and software security, and consideration of the various computerized audit packages available. (3 credits) *NOTE A/See § 200.2*

ACCOUNTANCY C461
Accounting Theory I

Prerequisite: Accountancy C325. This course examines the framework underlying current accounting thinking and procedures, and a study is made of the development and the influence of professional accounting organizations and regulatory bodies on accounting theory. Controversial areas are emphasized. (3 credits) *NOTE A/See § 200.2*

ACCOUNTANCY C462
Accounting Theory II

Prerequisite: Accountancy C461. This course extends the coverage of Accountancy C461. Particular emphasis is placed on developments in the current literature and in problem areas facing the accounting profession. (3 credits)

ACCOUNTANCY C468
(Also listed under International Business)
International Accounting

Prerequisites: Marketing 462 or International Business 362, Accountancy 213 and 218, Finance 314 and 315. (Students who have taken International Business 468 may not take this course for credit.)

This course examines accounting practices employed by different countries; accounting and financial control of international operations, and various consolidation procedures and their effect on the interpretation of financial statements are discussed. (3 credits)

ACCOUNTANCY C470
Special Topics in Accounting

Prerequisite: Departmental approval. Intended to complement and supplement accounting courses taken previously or currently at the senior level, this course emphasizes accounting literature and modern thought. Students are encouraged to work independently on research topics of interest to them. Enrolment is restricted and is subject to departmental approval. (3 credits) *NOTE A/See § 200.2*

ACCOUNTANCY C471
Accounting Seminar

Prerequisite: Accountancy C470. This course examines in greater depth areas of individual interest. Enrolment is restricted and is subject to departmental approval. (3 credits) Students repeating Accountancy C471 register for credits under Accountancy C472 *NOTE A/See § 200.2*

61.5 Administration

ADMINISTRATION C201
Introduction to Administration
(Administered by the Finance Department)

This course is intended to develop a basic understanding of the role of administration in our society. The course includes a survey of different forms of organizations, their social and legal responsibilities, and how they function to achieve their goals. (3 credits)
NOTE: Commerce and Administration students may not take this course for credit.

ADMINISTRATION C202
Perspective on Business
(Administered by the Finance Department)

This course is designed to review the historical development of business (in Canada in particular) and to examine the relationships between the firm (management) and the owners, the employees, the customers, the government and the community. Further, it studies some of the problems facing Canadian business today; the dehumanizing aspect, pollution problems, large vs. small firms, foreign ownership, competition, etc. (3 credits)
NOTE: Commerce and Administration students may not take this course for credits.

ADMINISTRATION C350
Transportation
(Administered by the Marketing Department)

This course will deal with economic principles underlying the various modes of transport: i.e. rail, water, motor, air and pipeline. Current problems of each will be discussed. In addition, a survey of the principles of business logistics will be covered. Cases will be utilized when possible. (3 credits) *NOTE A/See § 200.2*

61.6 Finance

Associate Professor and Chairman of the Department
E. J. DOUGLAS

Professor
C. C. POTTER

Visiting Professor
M. INAGAKI

Associate Professors
L. BOYLE
B. ENGLISH
A. ILANO
L. KRYZANOWSKI
A. RUGMAN

Assistant Professors
T. BARNES
J. FLYNN
Y. GEYIKDAGI
A. RIDING
K. RIENER

Executive-in-Residence
W. T. G. HACKETT

61.6.1 PROGRAMMES

24 Major in Finance
3 FINA C440
3 FINA C441
18 additional credits offered by the Department

12 Minor in Finance
3 FINA C440 (subject to change)
3 FINA C441 (subject to change)
6 additional credits offered by the Department

61.6.2 COURSE DESCRIPTIONS

FINANCE C314
Introduction to Finance I

Prerequisites: Economics C203 or equivalent, Accountancy C213, and Accountancy C218 previously or concurrently. A course dealing with financial standards and forecasting, the theory of interest, capital expenditure decisions, current asset management and the behaviour of money and capital markets. (3 credits) *NOTE: Students who have previously taken Finance 215 may not take this course for credit. NOTE A/See § 200.2*

FINANCE C315
Introduction to Finance II

Prerequisites: Finance C314 and Economics C201 or equivalent. A course dealing with short, intermediate and long-term financing instruments, financial structure and valuation, cost of capital and dividend policy. (3 credits)
NOTE: Students who have taken Finance 215 should consult the Department concerning permission to take this course. NOTE A/See § 200.2

FINANCE C417
Capital Budgeting Theory

Prerequisite: Finance C315. An examination of the criteria for efficient investments and optimum financial budgeting. (3 credits) *NOTE A/See § 200.2*

FINANCE C418
Cost Benefit Analysis

Prerequisite: Finance C315. Private and public resource investment, planning programming budgeting systems and associated problems. (3 credits) *NOTE A/See § 200.2*

FINANCE C430
Financial Management I

Prerequisite: Finance C315. A study of the role and responsibility of the senior financial officer in the achievement of current control through operational finance. A variety of case studies are used to encourage the students to develop a critical approach to the subject. (3 credits) *NOTE A/See § 200.2*

FINANCE C431
Financial Management II

Prerequisite: Finance C430. This course is a continuation of Finance C430, using the case method approach to cover such topics as long-term financing, investment decisions, mergers and acquisitions. (3 credits) *NOTE A/See § 200.2*

FINANCE C440
Finance Theory I

Prerequisite: Finance C315. This course discusses the role of research and theory in finance, and the theories of wealth allocation, interest, capital markets, and asset pricing. The discussion of these topics includes the effects of such influences as risk and inflation. (3 credits) *NOTE A/See § 200.2*

FINANCE C441
Finance Theory II

Prerequisites: Finance C440. This course will be a continuation of Finance C440 covering such topics as: dividends and the value of the corporation, cost of capital, game theory and liquidity. (3 credits) *NOTE A/See § 200.2*

FINANCE C452
Investment Analysis

Prerequisite: Finance C315. The examination of the workings of security markets and analytical techniques for the valuation of securities. (3 credits) *NOTE A/See § 200.2*

FINANCE C453
Investment Management

Prerequisite: Finance C452. A study of diversification and portfolio management techniques. (3 credits) *NOTE A/See § 200.2*

FINANCE C455
Seminar in Finance

Prerequisite: Finance C315. This course is intended primarily for Majors students and provides an opportunity for more intensive study in one or more specific topics of finance. The topic will vary according to the special interests of the professor and the students. (3 credits) Students repeating Finance C455 register for credits under Finance C456 *NOTE A/See § 200.2*

FINANCE C460
Financial Intermediaries (National)

Prerequisite: Finance C315. Principles of money and credit in their application to the operations of the central bank, chartered banks, and the financial system and markets generally. (3 credits) *NOTE A/See § 200.2*

FINANCE C461
Financial Intermediaries (Quebec)

Prerequisite: Finance C315. A study of the operation of financial institutions in the province of Quebec. (3 credits) *NOTE A/See § 200.2*

FINANCE 467
International Managerial Finance and Investment
(Also listed under International Business)

Prerequisites: Marketing 462 or International Business 362, Finance 314 and 315. (Students who have taken International Business 467 may not take this course for credit.) International transactions and financial flows. Business, political and foreign exchange risks. Insurance for foreign operations. Exchange rate protection. Public policy and institutions influencing international business. Various methods of financing used in world trade. Evaluation of foreign investment projects. Working capital management in the international context. Financial control of international operations. (3 credits)

61.7 International Business

61.7.1 PROGRAMMES

Programme Co-ordinator
K. C. DHAWAN

12 Minor in International Business
3 MARK C462
9 Additional credits among MARK C465, MANA C466, FINA C467, ACCO C468

61.7.2 COURSE DESCRIPTIONS

(The following five courses are also listed under each respective department).

MARKETING C462
INTERNATIONAL BUSINESS
Environment of World Business

Prerequisite: 2nd year standing in Commerce. (Students who have taken International Business 362 may not take this course for credit.)

This is a foundation course in international business; the objective is to present information which will expose the student to cultural, social, political, economic, legal and financial environments in which the Canadian businessman manages his operations abroad. Each student will be encouraged to develop his own philosophy toward international business activities by developing research and analytical skills in analyzing current and long term problems perceived in different economic systems and environments. Specific topics include empirical dimensions of world economy, economic development, international trade and investment patterns, regional economic co-operation, area studies, Canadian nationalism and foreign investment in Canada, etc. (3 credits)

MARKETING C465
INTERNATIONAL BUSINESS
International Marketing Management

Prerequisites: Marketing C462 or International Business 362, Marketing C213 and C350. (Students who have taken International Business 465 may not take this course for credit.)

This course studies the management approach to international marketing with emphasis on key variables that are controllable by the international marketing manager. Attention is focused on market measurement, product policy, channels, pricing, and promotion with special emphasis on the development and control of multinational marketing strategies and programs. (3 credits)

MANAGEMENT C466
INTERNATIONAL BUSINESS
Management of Multinational Corporations

Prerequisites: Marketing C462 or International Business 362, Management C213, C266, C340. (Students who have taken International Business 466 may not take this course for credit.)

This is a course that demonstrates the analytical tools of operations and organization theory applicable within a multinational company. The course is designed to give students a grasp of the problems of strategy formulation and organization, and inculcates a general knowledge of the major parameters in which an international manager operates. Focus is on the Canadian as well as other international companies based in U.S.A., Europe, Japan, etc. (3 credits)

FINANCE C467
INTERNATIONAL BUSINESS
International Managerial Finance and Investment

Prerequisites: Marketing C462 or International Business 362, Finance C314 and C315. (Students who have taken International Business 467 may not take this course for credit.)

International transactions and financial flows. Business, political and foreign exchange risks. Insurance for foreign operations. Exchange rate protection. Public policy and institutions influencing international business. Various methods of financing used in world trade. Evaluation of foreign investment projects. Working capital management in the international context. Financial control of international operations. (3 credits)

ACCOUNTANCY C468
INTERNATIONAL BUSINESS
International Accounting

Prerequisites: Marketing C462 or International Business 362, Accountancy C213 and C218, Finance C314 and C315. (Students who have taken International Business 468 may not take this course for credit.)

This course examines accounting practices employed by different countries; accounting and financial control of international operations, and various consolidation procedures and their effect on the interpretation of financial statements are discussed. (3 credits)

61.8 Management

Associate Professor and Acting Chairman of the Department
H. A. GRAM

Professors
G. BRINK
J. KELLY
H. TUTSCH

Associate Professors
S. APPELBAUM
A. ASHOUR
R. CRAWFORD
M. FRANKLIN
G. JOHNS
T. KUBICEK
P. PITSILADIS
G. S. RAJAN
R. SHEITOYAN
J. SMOLA

Assistant Professors
V. BABA
J. P. BRUNET
J. GOODWIN
M. JAMAL
R. OPPENHEIMER

Lecturers
M. BELCOURT
J. FISHER
P. WILSON

Sessional Lecturers
P. FILIATRAULT
D. FRANKLIN
S. HARUSTIAK
R. LEROUX
F. LINDSAY
M. SHARP

61.8.1 PROGRAMMES

24 Major in Administrative Management
3 MANA C345
3 MANA C369
3 MANA C442 (subject to change)
3 MANA C461
3 MANA C462
3 MANA C464
3 MANA C476
3 one of MANA C442, C420, C402, C474

12 Minor in Administrative Management
3 MANA C369
3 MANA C442
3 MANA C461
3 MANA from the programme of Major in Administrative Management

12 Minor in Entrepreneurship and Small Business Management
3 MANA C451
3 MANA C452
3 MANA C454
3 Mark C352 or C485

24 Major in Human Resource Management
3 MANA C341
3 MANA C342
3 MANA C420
3 MANA C462
3 MANA C463
3 MANA C464
6 two of MANA C369, C441, C479

12 Minor in Personnel Management
3 MANA C341
3 MANA C462
3 MANA C464
3 MANA from programme of Major in Human Resource Management

12 Minor in Managerial Law
3 MANA C476
3 MANA C477
3 MANA C478
3 MANA C479

61.8.2 COURSE DESCRIPTIONS

MANAGEMENT C211
Business Law

A general survey of the law obtaining in the Province of Quebec with special emphasis on the aspects thereof relating to business and commerce. It includes a basic outline of the law of Domicile, Marriage, Persons, Property, Ownership and its modifications, Successions. Gifts and Wills, Testamentary Executors, Contracts, Quasi-Contracts, Offences and Quasi-Offences, Privileges, Hypothecs and Prescription, and a more detailed study of the Contract of Sale, Lease and Hire of Things and of Work, Mandate, Loan, Deposit, Partnership, Suretyship, Pledge, Insurance and an outline of the basic law applying to Negotiable Instruments. Corporations, Carriers, Bankruptcy and Winding Up, and Copyrights, Patents and Trade Marks. (6 credits) *NOTE A/See § 200.2; Commerce and Administration students may not take this course for credits.*

MANAGEMENT C213
Foundations of Behaviour

The purpose of this course is to introduce the student to those behaviorial concepts relevant to the study of organizational problems. Topics include preception, attitudes,

personality, group behavior, roles and culture as they relate to organizational processes. (3 credits)
NOTE: Students will be exempted from this course if they meet either of the following requirements: (a) Two semesters of psychology, one of which must be social psychology, or, (b) Two semesters of psychology and one semester of sociology with a 75% grade in each.

MANAGEMENT C266
Management: Theory & Practice

The purpose of this course is to introduce the student to management theory and practice. Management will be viewed as a discipline and as a process (planning, organizing and evaluating). The evolution and scope of management will be considered with illustrations drawn from Canadian experiences. (3 credits)

MANAGEMENT C340
Organizational Behaviour

Prerequisites: Management C213; C266. This course is designed to provide the student with an opportunity to study behaviour within formal organizations. Through theoretic and experiential approaches, the focus of instruction progressively moves through the different levels of analysis, particularly motivation, leadership and group behaviour. The objective of the course is to improve the student's perceptual, analytical and problem solving skills in the diagnosis and innovative resolution of behavioural problems in organizations. (3 credits)

MANAGEMENT C341
Organization Theory

Prerequisites: Management C340. The function, structure and processes of organizations will provide the focus for study. Inter-relationships among the psychosocial, technological, and formal properties of organizations will be examined. Emphasis will be placed on the diagnosis, analysis of organizational problems and optimal design alternatives for improving organizational performance and effectiveness will be explored. The objective is to provide the student with a thorough understanding of the nature of contemporary complex organizations. (3 credits)

MANAGEMENT C342
Organizational Change

Prerequisites: Management C340. An administrative perspective of the behavioural and rational empirical strategies for effecting change in organizations. Emphasis will be placed on an eclectic approach to the planning and implementation of change. Models and methods of change will be reviewed and opportunities for the development of change-agent skills will be provided. (3 credits)

MANAGEMENT C345
Production Management I

Prerequisite: Quantitative Methods C314. It is the production function of the enterprise that gives us the products or services that we sell. In this course we attempt to help management guide and control this area. Topics include government programs and incentives, health and safety regulations, production incentive systems, management information systems and plant location. (3 credits)

MANAGEMENT C346
Production Management II

Prerequisite: Management C345. This course is a continuation of Production Management I and is designed to supplement the knowledge of those students choosing to minor in Production Management. One or more of the following topics will be dealt with in depth: work measurement and development of standard data for incentive systems; production planning, scheduling and control; research and development; plant layout and materials handling. (3 credits)

MANAGEMENT C368
Social Aspects of Enterprise

Prerequisite: Second year standing in any faculty. The purpose of this course is to facilitate understanding of the impact of social, economic, political and ethical environment on the process of managerial decision-making. Consideration is given to the conceptual foundations of business including the business corporation, its function and the legitimacy of its power structure. (3 credits) *NOTE A/See § 200.2*

MANAGEMENT C369
Canadian Business and its Environment

Prerequisite: Second year standing in Commerce. The purpose of this course is to examine the functioning of Canadian business and its relationships with its public, including stockholders, consumers, employees, labour, community and government. Major contemporary issues such as the impact of technology on people and the physical environment are examined. (3 credits) *NOTE A/See § 200.2*

MANAGEMENT C402
Supervisory Practice

Prerequisites: Management C340. A seminar focusing on the emerging understanding of leadership and supervisory techniques in task oriented organizations. Contemporary concepts and research on leadership and supervision will be examined. The seminar will analyze the multiple bases for influence and the situational or contingency aspects of leadership. A balance among the conceptual, diagnostic, and experiential approaches to the development of supervisory capability will be emphasized. (3 credits)

MANAGEMENT C409
Principles of Insurance

This course examines the growth of insurance companies in Canada and their effect upon the economy. In addition, the basic fundamentals of insurance are covered, including such topics as life insurance, income replacement, annuities, group insurance, liability, auto, fire and theft insurance. Practical applications and use of insurance dealing with both personal and business situations will be noted. (3 credits) *NOTE A/See § 200.2*

MANAGEMENT C420
Business Research Methods

Prerequisites: Management C340 and QM C243-C244 or equivalent. This seminar focuses on the means by which social and organizational data can be gathered, analyzed, and interpreted. Needs of the firm for efficient, timely, and unobtrusive research are given special attention. Topic coverage

includes applications of the scientific method, research design, field research techniques, data analysis, research utilization, and use of existing information sources. Student projects will parallel the classroom activities by designing and conducting business research studies of limited scale. (3 credits)

MANAGEMENT C441
Conflict Management

Prerequisites: Management C340. An administrative approach to the study of interpersonal, intergroup and intra-organizational conflict. Utilizes lectures, case studies and interaction exercises to convey theory, empirical research and applications. (3 credits)

MANAGEMENT C442
Managerial Concepts

Prerequisites: Management C340. This course provides an opportunity for intense study of recent developmental topics within the discipline. Topics might include women in management, managing in Quebec, Management By Objectives, long-range planning, equity theories of motivation, changing roles of managers. (3 credits)

MANAGEMENT C451
Managing a Small Business

Prerequisite: Accountancy C213. This introductory course emphasizes the *operational* aspects of management that are uniquely important to a small enterprise. It provides opportunity to practice operational decision-making under conditions characteristic for small firms. (3 credits)

MANAGEMENT C452
Entrepreneurship

Prerequisite: Third year standing. This course will provide for the student a source of the basic techniques needed to start or purchase a business of his own. Consideration will be given to evaluation methods, the nature of an entrepreneur, legal and tax aspects and other aspects of interest to an individual starting a venture as a career alternative. (3 credits)

MANAGEMENT C454
Policy and Strategy for the Small Enterprise

Prerequisites: Third year standing. This course will help the student to familiarize himself with problems of *strategy formulation* and *implementation* within the framework of starting and/or managing a small or medium-sized enterprise. All functions of management will be considered in this context and field work will be encouraged. (3 credits)

MANAGEMENT C460
Business Policy I

Prerequisites: Third year standing in Commerce and completion of core courses. This course is designed to introduce the student to strategy formulation and implementation. Emphasis will be on integrating the learning of the programme in order to develop in students a global view of the organization. Cases will be drawn from the private, public, and non-profit sectors and consideration will be given to policy problems in both the Canadian and international contexts. (3 credits)

MANAGEMENT C461
Business Policy II

Prerequisite: Management C460. This course will concentrate on how the strategy formulated in Business Policy I will be implemented by the organization. Organization structures will be studied in differing environments. The relationships between organization structures and the organization's strategy will be analyzed. The problems encountered by general managers as well as middle managers in the process of the implementation of the set policies will be studied. (3 credits) *NOTE A/See § 200.2*

MANAGEMENT C462
Personnel Management I

Prerequisite: Management C340. The aim of this course is to provide a sound background in fundamentals, theory, principles and practice of personnel management. It will focus on the philosophies underlying current personnel policy and practices. (3 credits) *NOTE A/See § 200.2*

MANAGEMENT C463
Personnel Management II

Prerequisite: Management C462. The course will focus on the techniques of: recruitment, selection, training, executive development, labour relations, performance appraisal and compensation administration. (3 credits)

MANAGEMENT C464
Labour and Industrial Relations I

Prerequisite: Management C340. Labour relations is a survey course designed to provide a practical and comprehensive approach to the state of labour-management relations in Canada. (3 credits) *NOTE A/See § 200.2*

MANAGEMENT C465
Collective Bargaining and Industrial Relations II

Prerequisite: Management C464. This course is designed to help the student to look at day-to-day problems connected with negotiation and administration of collective bargaining agreements. The course puts some stress on the behavioural aspects of industrial relations. (3 credits) *NOTE A/See § 200.2*

MANAGEMENT C466
(Also listed under International Business)
Management of Multinational Corporations

Prerequisites: Marketing 462 or International Business 362, Management C213, C266, C340. (Students who have taken International Business 466 may not take this course for credit).

This is a course that demonstrates the analytical tools of operations and organization theory applicable within a multinational company. The course is designed to give students a grasp of the problems of strategy formulation and organization, and inculcates a general knowledge of the major parameters in which an international manager operates. Focus is on the Canadian as well as other international companies based in U.S.A., Europe, Japan, etc. (3 credits)

MANAGEMENT C467
Management Theory — Advanced

Prerequisite: Management C266. This course will attempt to further develop the conceptual framework which was established in Management Theory I. To this end it will examine selected management concepts and appraise their value in terms of their application to the actual practice of business. Issues such as the effect of innovation and technological change, managing the knowledge worker, organization planning and comparative management will be considered. (3 credits) *NOTE A/See § 200.2*

MANAGEMENT C474
Institutional Administration

Prerequisite: Management C340. Management of institutions and agencies in the non-profit (private and public) sector presents unique opportunities and challenges to the manager. This class will provide an introduction to that field. Emphasis will be given to those characteristics of the organization and functioning of these programmes which distinguish them from commercial firms, including the peculiar nature of human services, and the influence of social-political processes. Class activities will utilize theoretical and case material and field observations. Student projects will concentrate on policy formulation and administrative function in an agency of the students' choice. (3 credits)

MANAGEMENT C475
Business Law I

Prerequisite: Second Year Standing in Commerce. This course deals with the Canadian and Quebec Law governing business organizations and the Quebec Civil Law concerning property, contracts, sales, lease, agency, commercial paper, consumer protection, regulation of finance, warranties and product liability, civil responsibility and obligations. It is essentially the body of law governing the relationships among businessmen and between businessmen and consumers, i.e. private business law. (3 credits)

MANAGEMENT C476
Business Law II

Prerequisite: Management C475. Federal and provincial government regulation of business including bankruptcy, anti-combines, trade marks and patents, labour law, insurance, special commercial contracts including secured transactions, fair employment, environmental law. (3 credits)

MANAGEMENT C477
The Law of Insolvency and Secured Transactions

Prerequisite: Management C475. An examination of the various laws and cases both Federal and Provincial across Canada, governing commercial insolvency with particular emphasis upon the liability of directors and officers and the creditors rights in bankruptcy including the role of inspectors and the trustee. An examination of the various forms of secured transactions, which creditors may avail themselves of, more particularly financial institutions including assignment of book debts, pledge, mortgages, bonds, trust deeds. (3 credits)

MANAGEMENT C478
Company Law

Prerequisite: Management C475. The examination of important legal issues relating to the business corporation including an analysis of their legal nature and structure and the powers, rights and obligations of directors, officers and shareholders, including analysis of the legal implications, insider trading, company re-organization, mergers, joint ventures and takeovers. These matters will be studied through the Federal, Quebec and Ontario Companies' Acts and relevant court cases. (3 credits)

MANAGEMENT C479
Labour Law

Prerequisite: Management C475. A study of the law and relevant court cases dealing with major labour-management issues including collective bargaining, union certification, strike, lock out, grievances and arbitration. Covers Canadian law, primarily Quebec. (3 credits)

MANAGEMENT C499
Special Topics in Administration

Enrolment is restricted and subject to departmental approval. Intended to complement and supplement business courses taken previously or concurrently, this course emphasizes business literature and modern thought. Students are encouraged to work independently on research topics of interest to them. (3 credits) Students repeating Management C499 register for credits under Management C498. *NOTE A/See § 200.2*

61.9 Marketing

Associate Professor and Chairman of Department
K. L. McGOWN

Professors
V. H. KIRPALANI
B. MALLEN

Associate Professors
K. C. DHAWAN
P. W. PASOLD

Assistant Professors
B. BARBIERI
M. J. BERGIER
D. R. EMERY, JR.
Z. GIDENGIL
N. W. McGUINNESS
T. E. MULLER
U. TODOROVIC

Lecturers
M. F. BONIN
K. SIMON
J. SKELTON
S. TREACY

61.9.1 PROGRAMMES

24 Major in Marketing

3 Mark C352
3 Mark C402
3 Mark C490
15 Mark credits offered by the Department.

12 Minor in Marketing

3 Mark C352
3 Mark C402
3 Mark C490
3 Mark credits offered by the Department

30 Certificate in Marketing Research

3 MARK C213
3 MARK C350
3 MARK C352
3 MARK C402
3 MARK C452
3 QUAN C221
3 QUAN C243
3 QUAN C244
3 QUAN C447
3 QUAN C448

NOTE:

1. Students currently enrolled in an undergraduate degree programme at Concordia may not count those courses towards this certificate. They may however take a Minor in Marketing Research.

2. Applicants with insufficient background in Mathematics must in addition, take Mathematics C208 and C209.

3. Accountancy C213 and Management C213 are waived as prerequisites for Marketing C350 and C352 respectively for students enrolled in this programme.

30 Minor in Marketing Research

3 MARK C213
3 MARK C350
3 MARK C352
3 MARK C402
3 MARK C452
3 QUAN C221
3 QUAN C243
3 QUAN C244
3 QUAN C447
3 QUAN C448

NOTE: **Non-Commerce Students**

1. Accountancy C213 and Management C213 are waived as prerequisites for Marketing C350 and C352 respectively for students taking this minor.

2. Applicants with insufficient background in Mathematics must, in addition, take Mathematics C208 and C209.

61.9.2 COURSE DESCRIPTIONS

MARKETING C213
The Marketing Process (Introductory)

The course examines the nature of marketing and its role in society as well as the inter-relationships that are operative within the marketing process — both external as related to society and the consumer and internal as related to the organization of the marketing process within the firm. Many of the factors influencing these relationships are also examined. (3 credits) *NOTE A/See § 200.2*

MARKETING C350
Marketing Management

Prerequisite: Marketing C213. An introduction to the managerial concepts and practices involved in planning and carrying out corporate marketing policies and strategies. The four basic elements of the marketing mix, product, price, promotion and distribution and their interrelationships will be examined in detail. The case method will also be used in order to apply these concepts to realistic marketing problems. (3 credits)

MARKETING C352
Buyer Behaviour

Prerequisite: Marketing C213. This course analyzes the motivations, roles and behaviour of the consumer, how he and she are affected by economic, social and cultural influences, and how the marketer may model this behaviour for decision-making purposes. (3 credits) *NOTE A/See § 200.2*

MARKETING C402
Marketing Research I (Methods)

Prerequisites: Marketing C350 and Quantitative Methods C244. The role of research in marketing process, the role of models, and the development of measurement techniques are discussed. Emphasis is placed on the nature and scope of marketing research methods for obtaining internal and external data and on the steps and principles involved in gathering and analyzing data. The student is also briefly introduced to applications of marketing research. (3 credits) *NOTE A/See § 200.2*

MARKETING C452
Marketing Research II (Application)

Prerequisite: Marketing C402. The application of marketing research to problem areas such as advertising, sales management and product strategy. Alternative research designs are applied to actual problems. (3 credits) *NOTE A/See § 200.2*

MARKETING C453
Advertising and Sales Promotion Management

Prerequisite: Marketing C350. The course deals with the theory and practice of advertising and sales promotion. Through case studies, field trips and simulations the student learns how to analyze media and budgets, plan promotional campaigns, utilize research findings and evaluate advertising effectiveness. (3 credits) *NOTE A/See § 200.2*

MARKETING C454
Sales Management

Prerequisite: Marketing C350. The course deals with the theoretical and applied aspects of the management of personal selling. Through cases, simulations and special presentations the student learns how to recruit, select, train, organize, motivate, evaluate, compensate, supervise and control the sales forces. (3 credits) *NOTE A/See § 200.2*

MARKETING C463
Retail Management

Prerequisite: Marketing C350. This course seeks to apply the theories of marketing and administration to the retail situation. Topics to be covered include site selection for single and multi-unit retail outlets, organizing and staffing the retail operation, the wholesaler-retailer relationship, consumer behaviour in the retail situation. The impact of such new developments as consumer cooperatives, franchising, discounting and computer technology on the future of retailing will also be considered. (3 credits) *NOTE A/See § 200.2*

MARKETING C464
Consumerism

Prerequisite: Marketing C350. The current evolution of marketing and consumerism is subjected to critical evaluation and analytical review. Problem areas which may be examined include marketing costs and efficiency, the social objectives of and objections to marketing, the impact of marketing on the environment, the 'pollution of advertising', ethics of marketers, and the role of governments in the market place. (3 credits) *NOTE A/See § 200.2*

MARKETING C465
(Also listed under International Business)
International Marketing Management

Prerequisite: International Business 362 or Marketing C462. (Students who have taken International Business 465 may not take this course for credit). This course studies the management approach to international marketing with emphasis on key variables that are controllable by the international marketing manager. Attention is focused on market measurement, product policy, channels, pricing and promotion with special emphasis on the development and control of multinational marketing strategies and programs. (3 credits)

MARKETING C485
Industrial Marketing

Prerequisites: Marketing C350. The course will focus on the managerial aspects of industrial marketing. The concept of organization buying behaviour and its impact on marketing strategy formulation will be discussed. Management of the industrial marketing mix considering product service development, intelligence, promotion, channels, and performance measurement will be covered, both in existing product lines and new product launch activities. (3 credits)

MARKETING C486
Product Management

Prerequisites: Marketing C213 and C350. In addition to analyzing product cycles and their characteristics and strategies which relate to each stage; this course delves into some of the more practical aspects of product policy setting strategy formulation of the analysis, development and execution of marketing programs for new and existing products. This course should make the student familiar with one or more product management operations through case discussions and/or field studies. (3 credits)

MARKETING C490
Marketing Policy

Prerequisites: Marketing C350 and 9 additional credits in marketing courses. A capstone course in Marketing, utilizing readings, projects and selected case studies requiring the student to incorporate concepts and techniques of previous marketing courses in determining marketing policy. (3 credits) *NOTE A/See § 200.2*

MARKETING C491
Special Topics Seminar

This seminar is an inquiry into various selected topics which will vary from year to year. (3 credits) Students repeating Marketing C491 register for credits under Marketing C492. *NOTE A/See § 200.2*

61.10 Quantitative Methods

Chairman
D. DOREEN, *Associate Professor*

Professor
G. PEDERZOLI

Associate Professors
C. BAYNE
A. CLAUS
Z. POPP
C. SANDBLOM
S. SRINIVASAN
D. WEST
R. WILLS

Assistant Professors
M. ANVARI
H. EISELT
Y. GERCHAK
M. KUSY
M. PARLAR

61.10.1 PROGRAMMES

24 Major in Quantitative Methods
9 QUAN C316, C327, C345
6 QUAN C423, C424
3 QUAN C412, C414, C416
3 QUAN C444, C447, C448
3 QUAN C425, C426

24 Major in Data Processing
6 QUAN C221, C327
9 QUAN C422, C423, C425
3 QUAN C424 or Acc C414
6 QUAN C417, C421, C426

12 Minor in Business Statistics
3 QUAN C345
3 QUAN C444
3 QUAN C447
3 QUAN C448

12 Minor in Business Systems
3 QUAN C327
3 QUAN C423
3 QUAN C424
3 QUAN C425, C426

12 Minor in Quantitative Methods
3 QUAN C316, C345, C327
3 QUAN C412, C414, C416
3 QUAN C444, C447, C448
3 QUAN C425, C426

12 Minor in Managerial Operations Research
3 QUAN C316
3 QUAN C412
3 QUAN C414
3 QUAN C416

12 Minor in Production Systems
3 QUAN C365
3 MANA C345
3 QUAN C416
3 QUAN C412, C448

61.10.2 COURSE DESCRIPTIONS

QUANTITATIVE METHODS C221
Introduction to Business Computing

Prerequisite: None. An introductory course for students interested in the applications of computers in business and industry. (3 credits)
NOTE: Students with credit for Comp Sc 211 may not take this course for additional credit.

QUANTITATIVE METHODS C223
Data Processing Techniques

Prerequisites: Quantitative Methods C221 or Computer Science 211, Continuation of Quantitative Methods C221, covering the equipment and methods used in data processing, to give the student as wide as possible an acquaintance with computers of all makes and models, communications and terminal equipment, and special input and output devices. The basic methods for collecting, verifying, preparing and disseminating information will be studied. Elementary programs in the BASIC language will be written and run by the students through the local time-sharing service. (3 credits)

QUANTITATIVE METHODS C243
Introductory Business Statistics I

Prerequisites: One CEGEP course in each of Algebra and Calculus, or equivalent. The objectives of the course are to introduce the student to applications of statistics in managerial decision-making. Topics covered include descriptive measures, frequency distribution analysis, probability theory, probability distributions, estimation, hypothesis testing. All examples will be derived from the functional areas of business, including Finance, Accounting, Production, Purchasing, Marketing, etc. (3 credits)

QUANTITATIVE METHODS C244
Introductory Business Statistics II

Prerequisite: QM C243 or equivalent. This course offers further development of probability and statistics concepts needed for management decisions. Topics covered include regression and correlation analysis, forecasting and smoothing techniques, time series analysis, sampling theory, quality control and analysis of variance. The usefulness of these techniques in managerial applications will be discussed with examples, problems and cases. (3 credits)

QUANTITATIVE METHODS C313
Managerial Operations Research

Prerequisites: QM C243 and C244, or equivalent. This course is an introduction to managerial operations research and its role and function in executive decision. It emphasizes both assumptions and management applications. The basic areas covered include: formulation, solution techniques, optimization concepts and model building; linear programming and related economic interpretation; transportation problems; transshipment problems; assignment problems; network analysis (CPM and PERT); game theory. (3 credits)

QUANTITATIVE METHODS C314
Operations Research and Production Systems

Prerequisite: QM C313 or equivalent. This course is an extension of QM C313. The basic areas covered include: Managerial Decision theory and utility theory, inventory control; waiting lines: time and motion studies; plant lay-out; design of the production planning systems; capacity planning models; sequencing and routing; Markov chains and applications; simulation. (3 credits)

QUANTITATIVE METHODS C316
Optimization Techniques

Prerequisite: QM C313 or equivalent. This course deals with optimization techniques in Management Sciences. It includes: linear programming, simplex algorithm, sensitivity testing and duality, postoptimality analysis; separable programming; dynamic programming; integer programming; non-linear programming; stochastic programming; multiplier theory. Management applications such as portfolio selection, capital budgeting, production smoothing, inventory scheduling, competitive strategies, regeneration models will be given particular attention. (3 credits)

QUANTITATIVE METHODS C327
Business Systems

This course provides a panoramic view of the systems tools, techniques and equipment and relates them to practical situations arising in an enterprise in this age of change. Topics covered include: translation of management objectives into business system procedures and methods, organization planning, project control techniques, work measurements, information gathering, processing, distribution and retention equipment from simple office machines to computers. Applications of Finance, Accounting, Marketing, Budgeting and Production systems will be discussed. (3 credits)

QUANTITATIVE METHODS C345
Business Decision Analysis

Prerequisites: QM C243 and C244 or equivalent. This course deals with the analysis of choices under uncertainty. It provides a coverage of Bayesian inference, decision theory, prior, posterior and pre-posterior distributions (discrete and continuous). It includes the analysis of uncertain payoffs and biased measurements, analytical utility functions and their properties; the use of judgment probability and the principle of substitution for strategies. Economics of sampling, risk sharing, group decision will also be considered. Examples of decision making in production planning, research and development, manpower planning, finance etc. will be presented and discussed. (3 credits)

QUANTITATIVE METHODS C353
Mathematical Analysis for Business — Calculus

Prerequisites: One CEGEP course in each of Intermediate Algebra and Calculus or equivalent. The various applications of differential and integral calculus and the use of difference and differential equations in the functional areas of management, e.g., production, marketing, accounting, and finance, personnel administration, and purchasing will be studied. (3 credits) *NOTE A/See § 200.2*

QUANTITATIVE METHODS C354
Mathematical Analysis for Business — Matrix Algebra

Prerequisites: One CEGEP course in each of Intermediate Algebra and Calculus or equivalent. Properties and applications of matrix algebra in the functional areas of management, e.g. production, marketing, accounting and finance, personnel administration and purchasing, will be studied. Special applications (e.g. Input-Output Analysis) will be explored. (3 credits) *NOTE A/See § 200.2*

QUANTITATIVE METHODS C365
Production Systems I

Prerequisites: QM C243, C244 and C313. In this course an introduction to production systems of the enterprise is presented. Topics include: technology and design, forecasting, allocation of resources, scheduling, work methods and measurement, location problems, plant layout and materials handling, process control and quality control. (3 credits)

QUANTITATIVE METHODS C412
Network Optimization Models

Prerequisites: QM C313 and C314 or equivalent. This course includes a detailed study of Network Models in Management Sciences. It includes classical transportation problem; transshipment model; assignment model; shortestroute algorithms in cyclic and acyclic networks; critical path scheduling; maximum flow through a capacitated network; out-of-kilter algorithm multicommodity network. Special applications to production scheduling, employment engagement, machine replacement, allocation situations, catering problems will be considered. (3 credits)

QUANTITATIVE METHODS C414
Operations Research Models in the Social Environment

Prerequisites: QM C313 and C314 or equivalent. This course is designed to keep the student informed of most recent and successful applications of Operations Research Models in the Social Environment. The topics to be discussed will be selected from: Criminal Justice, Educational Systems, Pollution, Rural and Agricultural Models, Transportation, Energy Models etc. (3 credits)

QUANTITATIVE METHODS C416
Inventory, Replacement, Maintenance Models

Prerequisites: QM C313 and C314 or equivalent. This course covers deterministic inventory models, stochastic inventory models, special structures of inventory control practice; replacement of items which deteriorate with time; replacement of items which fail suddenly, staffing problems; maintenance models; reliability theory; analysis of operational warranty techniques; renewal theory and managerial applications. (3 credits)

QUANTITATIVE METHODS C417
Commercial Software

Prerequisite: Quantitative Methods C423. A study of a representative sample of the software program packages available commercially for use in business applications, including systems packages such as file management, payroll, inventory, and bill-of-materials; and control packages such as critical path scheduling, linear programming, and simulation. Sources of software; criteria for evaluating and choosing packages; implementation, maintenance and modification of packages. Class and individual projects on the use of typical packages. (3 credits)

QUANTITATIVE METHODS C421
R.P.G. Programming

Prerequisites: Quantitative Methods C423 R.P.G. stands for Report Program Generator. This course is designed to teach the students the logic of the R.P.G. compiler. The knowledge gained in class will be utilized to solve problems and write about 5 programs geared for the business environment. There will be 3 lecture hours per week and approximately 5 to 10 hours of programming and debugging per week outside class. (3 credits)

QUANTITATIVE METHODS C422
Data Processing Management

Prerequisite: Quantitative Methods C423. The theory and practice of management as applied in commercial data processing. Planning for new business systems and computers; the feasibility study; the computer as an aid in planning; the organization of a data centre; staffing the data centre; job description and job specifications; maintenance and security; control methods for operation, data entry, processing and output. (3 credits)

QUANTITATIVE METHODS C423
Business Computer Programming

Prerequisite: QM C221 or equivalent. This course introduces the use of computer terminals and the BASIC programming language in on-line business applications. Attention will be given to good programming practices, proper documentation, and the organization of programming teams. Structured programming concepts will be illustrated using the standard COBOL language for batch file-handling programs. (3 credits) *NOTE A/See § 200.2*

QUANTITATIVE METHODS C424
Data Processing Systems and Applications

Prerequisite: QM C423 or Comp C251 or equivalent. This course will survey and study the various currently available data processing systems, illustrated by a detailed study of typical applications to production, inventory control, ordering and invoicing. The role of management (at all levels) in planning, implementing, staffing, operating and controlling a data system will be studied by readings and cases. (3 credits) *NOTE A/See § 200.2*

QUANTITATIVE METHODS C425
Business Systems Analysis and Design

Prerequisite: QM 221 or equivalent. Principles of the design of data processing systems, and a detailed study of the process of implementing a new system. Methods of evaluating an existing system or a proposed modification. Maintaining quality, economy, security and integrity in a data system. Students will study and report on an actual operating data system. (3 credits) *NOTE A/See § 200.2*

QUANTITATIVE METHODS C426
Business Systems Simulation and Control

Prerequisite: Computer Science C211, Quantitative Methods C244, and C314; or equivalent. Digital simulation of stochastic and deterministic business sub-systems will be studied and executed in FORTRAN; various other simulation languages and models will be reviewed and evaluated; large scale simulation models (total system approach) and computer oriented management planning and control models will be examined. (3 credits) *NOTE A/See § 200.2*

QUANTITATIVE METHODS C433
Topics in Quantitative Methods

Prerequisite: Permission of the Department. This course is intended primarily for major students, and allows opportunity for more intensive examination of one or more particular topics in quantitative methods. The specific subject will vary according to the special interest of the professor offering the course in any given year. (3 credits) Students repeating Quantitative Methods C433 register for credits under Quantitative Methods C434. *NOTE A/See § 200.2*

QUANTITATIVE METHODS C444
Business Experimental Analysis

Prerequisites: QM C243 and C244 or equivalnet. This course deals with the design and the analysis of experiments which are relevant to the decision-maker in management fields. It includes analysis of variance; orthogonal classification; factorial experiments; block designs; mixed models; replication; calibration studies; economics of experimentation; non-parametric statistical inference; discriminant analysis. All functional areas of management application will be considered and used as examples and in cases. (3 credits)

QUANTITATIVE METHODS C447
Statistical Forecasting

Prerequisites: QM C244 or equivalent. This course presents the foundations of applied time series analysis for managerial forecasting. It includes forecasting methods and objectives; fundamental concepts in time series analysis; models for stationary time series; model for nonstationary time series; models for seasonal time series; Box and Jenkins methods; forecast evaluation. (3 credits)

QUANTITATIVE METHODS C448
Business Sampling Techniques and Quality Control

Prerequisites: QM C243 and C244 or equivalent. This course consists of two parts. Part 1 deals with the different sampling methodologies and their applications to managerial problems. Problems relating to sampling of accounts receivable and payable, audit control, accounting information system, evaluation of inventories, market research studies, and assembly line situations, will be studied in detail. The second part involves understanding the use of different quality control charts (C Chart, U Chart, X and R Charts) in production and marketing environment. (3 credits)

61.11 Economics

Bachelor of Commerce students who wish to follow an Honours or Major programme in Economics may meet the requirements of the Faculties of Commerce and of Arts and Science by following the programmes described below. The course descriptions for Economics courses may be found in Section 31.11.

Students seeking admission into the Honours programme require approval of the Department following a recommendation from its Honours Committee.

Bachelor of Commerce students wishing to take a Minor in Economics may do so by selecting 30 credits in Economics in consultation with the Economics Department.

61.11.1 PROGRAMMES

90 B. Comm Honours in Economics

Year I

6 ECON C201*, C203*
6 QUAN C243, C244
6 MARK C213, FINA C314**
6 ACCO C213, C218
6 MANA C213, C266

Year II

6 ECON C301, C302
6 ECON C303, C304
6 FINA C315, MARK C350
6 MANA C340, C475
6 ECON elective†

Year III

18 ECON ADVANCED CORE***
6 QUAN C313, C314
6 MANA C460, or ECON elective in consultation with the Economics Department

* *A student who has been granted exemptions for ECON C201 or C203 must take an equivalent number of credits in Economics*

** *ECON C203 is a prerequisite for FINA C314*

† *If the student does not have a calculus course and a linear algebra course, ECON C221 and C222 should be taken at this stage.*

*** *See Section 31.11*

90 B. Comm Major in Economics

6 ECON C201*, C203*
6 QUAN C243, C244
6 MARK C213, FINA C314**
6 ACCO C213, C218
6 MANA C213, C266
6 ECON C301, C302
6 ECON C303, C304
6 FINA C315, MARK C350
6 MANA C340, C475
6 ECON elective
6 ECON elective (400 level)
6 ECON elective
6 QUAN C313, C314
6 MANA C460, or elective in consultation with the Economics Department
6 Elective

* *A student who has been granted exemptions for ECON C201 or C203 must take an equivalent number of credits in Economics.*

** *ECON C203 is a prerequisite for FINA C314*

61.12 Computer Science: For a Major in Data Processing see § 61.10.

61.13 Additional Courses for Commerce Students

COMPUTER SCIENCE

Courses in Computer Science are available as electives to Commerce students.

FINE ARTS

The following course in Fine Arts is available to Commerce students.

THEATRE C320
Theatre Administration

A course in theatre administration covering office and plant management, production, touring, and prepackaged plant costing; contracts, insurances, budgeting and seasonal planning. Lectures with actual case studies in depth. (6 credits)

61.13.1 NON-CREDIT COURSES

The following courses, are offered from time to time to meet the needs of various business organizations. They do not carry credits towards the Bachelor of Commerce degree. Students must consult the timetable to determine which of the following courses are offered in the current academic year.

BUSINESS C221 (NON-CREDIT)
Office Management

A course in the principles of office management, including such topics as the function of the office in business; organization and principles of control; office systems and routines; office equipment and labour saving devices; office planning and layouts; selection and training of office personnel; office communications.
NOTE: This course was previously designated as Administration 221. Students who have taken Administration 221 should not take this course.

BUSINESS C222 (NON-CREDIT)
Procurement Principles

This course is designed to cover the fundamentals of purchasing policies and procedures and the organization and functions of the purchasing department in business and industry. Topics covered will include pricing, negotiation, quality and quantity determination, budgetary institutions etc., as well as the relationship between purchasing and other management functions. Class discussion and case studies are the basic method of study employed.
NOTE: This course was previously designated as Administration 442 and 443. Students who have taken Administration 442 and/or 443 should not take this course.

BUSINESS C223 (NON-CREDIT)
Business Systems

This course is designed primarily for students with practical business experience, managers, and potential system men. It provides a panoramic view of the systems tools, techniques and equipment and relates them to practical situations arising in an enterprise in this age of change. Topics covered include: translation of management objectives into business system procedures and methods; organization planning; fact finding and related tools such as flow charting, work measurement, information requirement studies; selling implementation and management of system and organization changes including planning, presentation and documentation tools such as a critical path scheduling, decision table construction, procedure writing, project control techniques; information gathering, processing, distribution and retention equipment from simple office machines to computers.
NOTE: This course was previously designated as Executive Training 441 and 442. Students who have taken Executive Training 441 and/or 442 should not take this course.

BUSINESS C241 (NON-CREDIT)
International Trade

The fundamental and practical aspects of importing and exporting, covering such subjects as trade terms and definitions, import and export regulations; export credits insurance; customs regulations; handling of export traffic; trading documents; air cargo and air express; marine insurance; financing.
NOTE: This course was previously designated as Marketing 241. Students who have taken Marketing 241 should not take this course.

BUSINESS C251 (NON-CREDIT)
Transportation and Traffic (Introductory)

This course in freight traffic management is primarily for students who wish to specialize in this line of endeavour. It covers the practical aspects of transportation in Canada including such matters as bills of lading and shipping procedures; special services of railways; express; claims and claims preventions; freight contracts; marine insurance; customs; interpretation of the railway act and railway law.
NOTE: This course was previously designated as Marketing 251. Students who have taken Marketing 251 should not take this course.

BUSINESS C252 (NON-CREDIT)
Transportation and Traffic (Advanced)

Prerequisite: Business 251. This course in freight traffic management is primarily for students who wish to specialize in this line of endeavour. It covers the practical aspects of transportation in Canada including such matters as tariff construction and freight rate structures; condition of carriage; ocean freight contracts; mariner insurance; customs; interpretation of the railway act and railway law.
NOTE: This course was previously designated as Marketing 252. Students who have taken Marketing 252 should not take this course.

BUSINESS C260 (NON-CREDIT)
Basic Mathematics for Business

Review of elementary algebraic operations; fractions, ratios, proportions, percentages, simple equations, arithmetic and geometric progressions, logarithms; graphical algebra; simple and compound interest; annuities, amortization and sinking funds, depreciation and bond values; simple business statistics including: the collection of statistical data, various methods of presentation including tables and graphs, the frequency distribution and its mathematical analysis including averages, measures of disperasion, measures of skewnesses, normal curve, and correlation.

61.14 Special Programmes in Accountancy

The three professional organizations listed below recognize certain Concordia University course for course exemptions or standing in their professional designation programmes.

ORDER OF CHARTERED ACCOUNTANTS OF QUEBEC: Chartered Accountant (CA)

The Faculty of Commerce and Administration offers a Diploma in Accountancy which has been approved by the Order of Chartered Accountants of Quebec. Entry into the program normally requires a Bachelor's degree in Commerce, and a major in accountancy with high academic standing. Applicants lacking an appropriate pattern of undergraduate work will be required to complete successfully certain qualifying courses, as assigned by the diploma program director. For further details refer to the Concordia University Graduate Studies calendar.

PROFESSIONAL CORPORATION OF INDUSTRIAL ACCOUNTANTS OF QUEBEC: Registered Industrial Accountant (R.I.A.)

Students who wish to follow the RIA program must register with the Professional Corporation of Industrial Accountants of Quebec. A table of course equivalencies for RIA and Concordia courses is shown below.

R.I.A. Courses	Concordia University Courses
11 Principles of Accounting	ACCOUNTANCY C213 Financial I ACCOUNTANCY C218 Managerial I
12 Introductory Economics	ECONOMICS C201 Intro to micro-economics ECONOMICS C203 Intro to macro-economics
13 Report Writing	CEGEP or University degree
14 Data Processing	COMPUTER SCIENCE C211
15 Business Mathematics	MATHEMATICS C208 Fundamental Mathematics I MATHEMATICS C209 Fundamental Mathematics II OR MATHEMATICS C310 Math for the Social and Management Sciences
21 Accounting Theory and Problems	ACCOUNTANCY C323 Intermediate I ACCOUNTANCY C326 Intermediate II
22 Commercial Law	MANAGEMENT C475 Business Law I MANAGEMENT C476 Business Law II
23 Organizational Behaviour	MANAGEMENT C213 Foundations of Behaviour MANAGEMENT C340 Organizational Behaviour
24 Taxation	ACCOUNTANCY C441 Taxation I ACCOUNTANCY C442 Taxation II
31 Accounting: Cost Determination	ACCOUNTANCY C403 Cost and Management Accounting
32 Quantitative Methods I	QUANTITATIVE METHODS C243 Intro Business Statistics I QUANTITATIVE METHODS C244 Intro Business Statistics II
33 Quantitative Methods II	QUANTITATIVE METHODS C313 Managerial Operations Research QUANTITATIVE METHODS C314 Operations Research and Production Systems
41 Accounting: Management Planning and Control	ACCOUNTANCY C422 Cost Accounting (Advanced) (Note 2)
42 Financial Management	FINANCE C314 Introduction to Finance I FINANCE C315 Introduction to Finance II

43 Accounting: Selected Topics	ACCOUNTANCY C325 Advanced (Note 2)
51 Information Systems	ACCOUNTANCY C414 Information Systems and Control
52 Operational Auditing	ACCOUNTANCY C429 Analytical Auditing ACCOUNTANCY C432 Financial Auditing
53 Management: Processes and Problems	MANAGEMENT C460 Business Policy I (Note 2)

Notes: 1. This table is subject to amendment to reflect future changes in course relationships.

2. The Corporation's exams in courses 41, 43 and 53 are mandatory. Students requesting an exemption from the RIA course work in any of these mandatory courses should consult with the Department of Accountancy, RIA co-ordinator.

PROFESSIONAL CORPORATION OF CERTIFIED GENERAL ACCOUNTANTS OF QUEBEC: Certified General Accountant (C.G.A.)

Students who wish to follow the C.G.A. program must register with the Professional Corporation of Certified General Accountants of Quebec. A table of course equivalencies for C.G.A. and Concordia courses is shown below.

C.G.A. Courses	**Concordia Courses**
LEVEL I	
101 Accounting Principles	ACCOUNTANCY C213 Financial I ACCOUNTANCY C218 Managerial I
108 Law	MANAGEMENT C475 Business Law I MANAGEMENT C476 Business Law II
LEVEL II	
202 Mathematics of Finance	See Note 2
203 Statistics	QUANTITATIVE METHODS C243 Intro Business Statistics I QUANTITATIVE METHODS C244 Intro Business Statistics II
221 Intermediate Accounting	ACCOUNTANCY C323 Intermediate I ACCOUNTANCY C326 Intermediate II
LEVEL III	
304 Economics	ECONOMICS C201 Intro to Micro-economics ECONOMICS C203 Intro to Macro-economics
311 Cost Accounting	ACCOUNTANCY C403 Cost and Management Accounting
325 Management Information and Computer Systems	ACCOUNTANCY C414 Information Systems and Control
LEVEL IV	
401 Advanced Accounting	ACCOUNTANCY C325 Advanced Accounting
409 Income Tax	ACCOUNTANCY C441 Taxation I
417 Fundamental Auditing	ACCOUNTANCY C429 Analytical Auditing ACCOUNTANCY C432 Financial Auditing
LEVEL V	
500 Organization Behaviour	MANAGEMENT C340 Organizational Behaviour MANAGEMENT C431 Organization Theory
509 Income Tax — Advanced	ACCOUNTANCY C442 (Note 3) Taxation II
511 Advanced Accounting	ACCOUNTANCY C410 Specialized ACCOUNTANCY C461 Accounting Theory I (Note 3)

516 Financial Management		FINANCE C314 Introduction to Finance I FINANCE C315 Introduction to Finance II (Note 3)
517 Financial Auditing OR 557 Operational Auditing		ACCOUNTANCY C432 Financial Auditing (Note 3) Not offered

Notes: 1. This table is subject to amendment to reflect future changes in course relationships.

2. A student enrolling in a B.Comm. at Concordia would have this course completed prior to admission or else would require making up deficiencies in Mathematics.

3. The Corporation's exams in 509, 511, 516 and 157 must be written in addition to the Concordia prerequisites.

61.15 Special Certificate Programmes

There are many organizations within the business community designed to serve the needs of people working in specialized areas of business. These organizations recognize that the educational qualifications of those seeking membership must be continually upgraded. Therefore, they sponsor an Academic Certificate which may be obtained through correspondence courses or through a lecture programme.

The Faculty of commerce and Administration cooperates with these business organizations by permitting personnel to register as independent (partial) students, and to take courses leading to a certificate to be awarded by the organization concerned.

Students must comply with the University regulations regarding dates of application and independent (partial) student entrance requirements as outlined in the Academic Calendar § 11. In addition to this, they must meet the requirements of the specific organization.

The credit course taken may be applied towards the Bachelor of Commerce degree provided the student meets the admission requirements and wishes to transfer from independent (partial) status to undergraduate status after completing a certificate programme. Students are advised that they must meet the Bachelor of Commerce curriculum requirements in force at the date of transfer.

Each certificate programme has one or more special courses required to complete the programme. These courses do not carry credit toward a Bachelor's degree and are designated as non-credit courses.

Students interested in the following certificate programmes will obtain details of required courses from the organization concerned:

The Administrative Management Society (Montreal Chapter) Inc.

Association of Professional Placement Agencies and Consultants

The American Marketing Association (Montreal Chapter)

The Institute of Chartered Secretaries & Administrators

The Canadian Association of Purchasing Agents (Montreal Division)

Data Processing Management Association (Montreal Chapter)

Institute of Canadian Bankers

The Montreal Personnel Association

The Systems and Procedures Association of America (Montreal Chapter)

The National Secretaries Association (CPS)

The Insurance Institute of Canada

The Trust Companies Institute of Canada

61.16 Commerce & Administration Consultative Committee

The purpose of this committee is the maintenance of a continuing and constructive relationship and dialogue between the Faculty of Commerce and Administration and a broadly representative group of senior business executives. In this way the relevance of the work of the Faculty to the needs of the business community is kept under review, while the objectives, roles and accomplishments of the Faculty and the qualifications of its graduates are made better known in business circles.

The personnel of the Committee comprises senior members of the business community, senior faculty representatives and also representatives of student organizations.

Chairman
W. T. G. HACKETT

Vice-Chairman
STANLEY D. CLARKE *(Business)*

Vice-Chairman
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Business

COLIN AVERY
Controller, Apparel Fabrics Division, Dominion Textile Ltd.

DONALD S. BARTLETT
President, Bar-Well Foods Ltd.

COMMERCE CONSULTATIVE COMMITTEE
61.16

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Vice-President, Administration and Director, Celanese Canada Inc.

RUPERT B. CARLETON
Barrister and Solicitor

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Associate Dean, Academic & Administration
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R. O. WILLS

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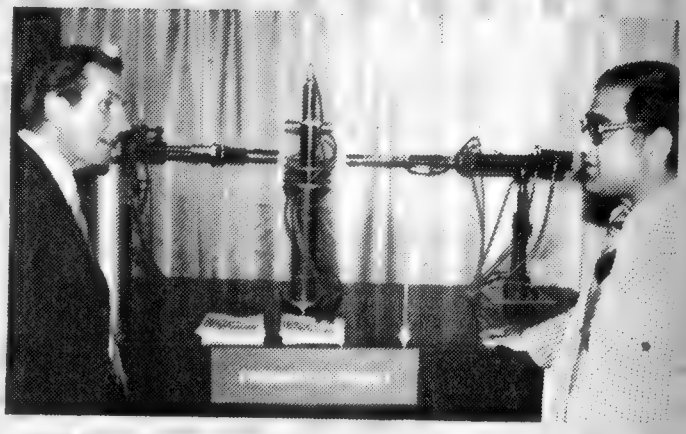
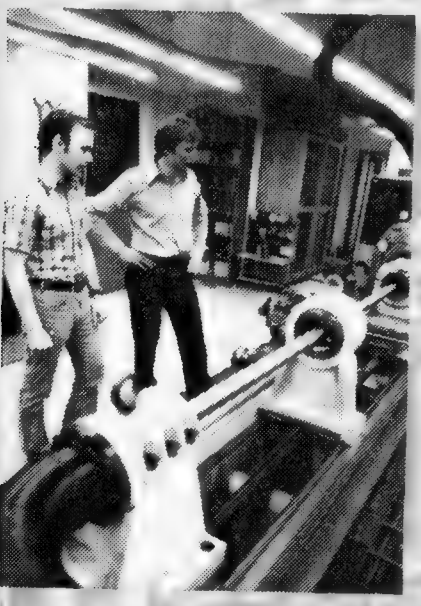
F. SBROCCHI

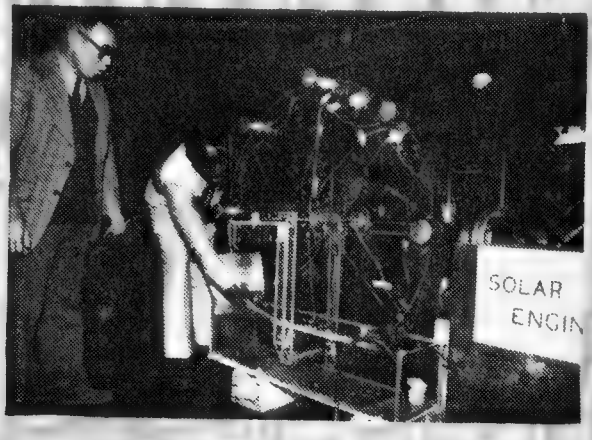
Students

President, Commerce Graduate Student Association
ERIC PRESENTI

Other Students
TBA



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71 Faculty of Engineering

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71.1 Faculty of Engineering

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A. ANTONIOU

Chairman, Department of Mechanical Engineering
T.S. SANKAR

Acting Chairman, Department of Computer Science
J. MCKAY

Note: The following programmes are offered in the Faculty of Engineering:

(1) Bachelor of Engineering degrees in Civil, Electrical, and Mechanical Engineering.
(2) Programme in Building Engineering leading to the combined degrees of Bachelor of Engineering (Civil) and Master of Engineering (Building).
(3) Bachelor of Computer Science degree.
(4) Minor in Computer Science
(5) Certificate in Quality Control.

The requirements for the programmes are different, and the appropriate section in the following pages must be consulted for each.

71.1.1 ADMISSION REQUIREMENTS

Applications for admission to the B.Eng. or B.Comp.Sc. programmes are submitted to the Admissions Office at the preferred campus.

General Admission requirements are listed in §13. In addition, the following specific requirements exist for the various programmes. Applicants should specify their choice of programme on their application.

1) B. Eng. (Civil, Electrical, Mechanical) B. Comp. Sc. (General Business Option) Certificate in Quality Control

	CEGEP (Profile 10.4)
Mathematics	101
	103
	105
	203

Completion of the above courses is a necessary condition for regular admission to a B. Eng. programme, the minimum length of which will range from 126.50 to 132.50 credits depending on the programme chosen. Consideration will be given to reducing the length of an individual student's programme in cases where he/she has completed one or more of the CEGEP courses listed below. Corresponding Concordia numbers and credit values are also listed. In no case may a programme be reduced below a minimum of 105 credits.

CEGEP Numbers	Concordia Numbers
203-101	PHYS C204[3], C224[1]
203-201	PHYS C205[3], C225[1]
203-301	PHYS C206[3]
202-101	CHEM C205[3]
420-911	COMP C211[3]
242-101	ENGR C212[2]
242-201 and 211	ENGR C213[2]
242-301	ENGR C214[2]
205-901	CIVI C231[2.75]
221-322	CIVI C271[3]

2) B. Comp. Sc. (General Science, Mathematics and Digital Systems Options)

	CEGEP (Profile 10.10)
Mathematics	103
	105
	203
Physics	101
	201
	301
Chemistry	101
	201
Biology	301

Students will be required to take COMP C211[3] during their first year, in addition to regular programme requirements, if they have not obtained credit for Data Processing 420-911 (Introduction to Fortran) or

its equivalent. COMP C211[3] is available during the summer.

Note: Applications from graduates of CEGEP technology programmes will also be considered. Such applicants admitted to the undergraduate programme may be required to take certain special courses.

71.1.2 ACADEMIC REGULATIONS

Students should refer to the section presenting the Academic Regulations of the University, §16.

For additional regulations governing the programme in Building Engineering leading to the combined degrees of Bachelor of Engineering (Civil) and Master of Engineering (Building), see Section 71.3.

71.1.3 ADDITIONAL REGULATIONS FOR THE BACHELOR OF ENGINEERING/BACHELOR OF COMPUTER SCIENCE

Definitions

Programme: The programme consists of

i) All courses and other requirements specified in §71 for the B. Eng/ B. Comp. Sc. degrees, and/or

ii) All courses and other requirements specified in §14. for the Pre Engineering/ Computer Science Mature Student programme, or,

iii) Any modifications to i) and ii) as specified by the Faculty on an individual basis.

Academic Year: A period of time which includes a Summer and its subsequent Fall and Winter terms.

Appropriate member of the Dean's office: As appointed by the Dean of Engineering.

Student Adviser: Faculty member responsible for counselling students.

Objectives

The objectives of these regulations are:

First, to ensure that students can, with the assistance or intervention of the Faculty, assess themselves objectively, and plan programmes of study designed to meet their individual needs.

Second, to ensure that the Faculty can certify that all of its graduates are qualified to enter their profession.

Grading System

See §16.3 for the Concordia grading system. Results for courses specified in §71 for the B. Eng/B. Comp. Sc. degrees are to be submitted as letter grades only, (e.g. C−, B+, A).

Regulations

1. Upon completion of the term of study where the student's programme includes a first attempt at not less than four of the courses specified for the B. Eng. or B. Comp. Sc. degrees in section 71 of the undergraduate calendar, full-time students may register for six courses in the following term (See Table 1) provided that they have achieved a grade of C− or better in each of at least two thirds of the courses for which they were registered. Students who do not achieve a grade of C− or better in each of at least two thirds of the courses for which they were registered will have their programme for the next term determined by the appropriate member of the Dean's Office in consultation with their advisor.

2. Students' standings are assessed at the end of each academic year providing they have registered for at least four courses in the programme subsequent to their previous assessment, or in the case of a first assessment, subsequent to their admission to the programme. Standings of students requiring fewer than four courses to complete the B. Eng./B. Comp. Sc. programmes will be determined on the basis of only those courses registered for in that academic year.

The assessment is based on the grades obtained for all courses in the programme for which they have registered, subsequent to their previous assessment, or in the case of a first assessment, subsequent to their admission to the programme. A grade obtained as a result of writing a supplemental examination and/or completing the work for a course graded 'INC' is not included in the assessment.

3. Students' standings are determined according to the following criteria:

Acceptable Standing

'C−' or better in each of at least two-thirds of the courses registered for with no more than one failure if eight or fewer courses have been registered for, or two failures if more than eight courses have been registered for. (See Table 1)

Conditional Standing

'C−' or better in each of at least one-half of the courses registered for, with no more than two failures if eight or fewer courses have been registered for, or three failures if more than eight courses have been registered for. (See Table 2)

Failed Standing

Failure to meet the criteria for acceptable or conditional standings, or conditional standing over two consecutive assessments.

4. Students in acceptable standing may proceed subject to the following conditions: Any failing grade must be cleared by passing the supplemental examination and/or completing the work for the course, or by repeating the failed course, or by replacing the failed course by an alternative approved by the student's Department.

5. Students in conditional standing may proceed for one year of study subject to the following conditions:

a) They must repeat successfully all courses in which failing grades were obtained, or replace them by alternatives approved by the appropriate member of the Dean's Office in consultation with the student's Department.

b) They must repeat or replace by approved alternatives at least one-half of those courses in which they obtained grades in the 'D' range. The specific courses to be repeated will be determined by the appropriate member of the Dean's Office in consultation with the student's Department.

c) Full-time students may register for a maximum of five courses per term, part-time students for a maximum of two courses per term.

d) They must obtain acceptable standing at the time of their next assessment.

6. Subject to regulation 7 below, failed students may be considered for re-admission upon application to the appropriate member of the Dean's Office. If re-admitted, they will be placed on academic probation to be determined at the time of their re-admission.

They must return to good standing at the time of their next assessment.

7. Failed students who were previously classed as failed students must withdraw from the University.

TABLE 1	MINIMUM CRITERIA FOR ACCEPTABLE STANDING									
No. of Courses	4	5	6	7	8	9	10	11	12	13
Min. No. of Grades of 'C – ' or above	3	4	4	5	6	6	7	8	8	9
Max. No. of Failing Grades	1	1	1	1	1	2	2	2	2	2

TABLE 2	MINIMUM CRITERIA FOR CONDITIONAL STANDING									
No. of Courses	4	5	6	7	8	9	10	11	12	13
Min. No. of Grades of 'C – ' or above	2	3	3	4	4	5	5	6	6	7
Max. No. of Failing Grades	2	2	2	2	2	3	3	3	3	3

71.1.4 AVAILABILITY OF PROGRAMMES

There is great flexibility in the method of progressing through a programme of Engineering or Computer Science at Concordia. This is shown in the table below. Students are also free to proceed in either a 6 or 8 term sequence in the Engineering programme. Further information on sequencing may be found in the Programme Guide issued by the Assistant Dean, Academic Programmes, and in Section 71.2.7 of this calendar.

January Entrants

In addition to admitting students to its programmes for the fall session, the Faculty admits in January, students who have completed their collegial studies. In the case of the B.Eng. programme, students will be admitted at the Sir George Williams Campus only; and if they are full-time students, are expected to undertake full-time studies during the subsequent summer.

Industrial Parallel Studies (IPS)

Attention should be given to a programme unique to Concordia, that of Industrial Parallel Studies. IPS are available at the Sir George Williams Campus. They are offered for students who have successfully completed the First Year of the programme, or its equivalent, and whose employers are prepared to certify that they will be employed for a maximum of 20 hours per week during the Fall/Winter Sessions. The Faculty timetable is arranged to allow students undertaking IPS to attend the University for either five half days or two and one-half days per week.

Priority for IPS is given to students who have completed the First Year of the programme in the Evening. All students undertaking such studies must have been granted permission by the office of the Assistant Dean, Undergraduate Student Affairs, Engineering and Computer Science, from whom the pamphlet Industrial Parallel Studies, giving more detailed information, can be obtained upon request.

Table 3 AVAILABILITY OF PROGRAMMES
S — Sir George Williams Campus
L — Loyola Campus

	COMPLETE PROGRAMME		PARTIAL PROGRAMME*	
	Full-Time	Part-time	Full-Time	Part-time
B. Eng.				
BLDG	S		L	S**
CIVI	S		L	S**
ELEC	S		L	S**
MECH	S		L	S**
B. Comp. Sc.				
General Business	S	S	L	L
General Science	S	S	L	L
Digital Systems	S		L	L
Mathematics	S	S	L	L
Minor in Computer Science	S,L	S,L		
Certificate in Quality Control		L		

* *Students may complete the first two thirds of their programme at the Loyola campus. They must transfer to the Sir George Williams campus for the final third. In the case of students registered in combined programme in Building Engineering, this transfer must be effected after completion of the first third of the programme.*

** *Students must transfer to full-time studies after completion of the first third of the programme.*

71.2 Bachelor of Engineering

71.2.1 CURRICULUM FOR THE DEGREE OF BACHELOR OF ENGINEERING

The University offers programmes leading to the degree of Bachelor of Engineering in the fields of Civil, Electrical, and Mechanical Engineering. The B.Eng. (Civil) degree is also offered as part of the programme in building engineering leading to the combined degrees of B.Eng. (Civil) and M.Eng. (Building) given by the Centre for Building Studies. To be recommended for the degree of Bachelor of Engineering, students must satisfactorily complete all course requirements for the programme in which they are registered and achieve acceptable standing. Course requirements include the engineering core as defined in Section 71.2.4, programme core and option requirements. These are given in subsequent sections. They comprise a group of required courses with a group of elective courses which allow students to select part of their programme to provide some depth in an area of specialization according to their particular interests, or breadth in the general field of their chosen discipline.

In their final undergraduate year, students with high standing may be granted permission by their department and the Engineering Graduate Studies Committee to register for a limited number of graduate courses offered by the Faculty in lieu of some courses in the undergraduate programme.

Successful completion of a B.Eng. programme requires hard work and considerable dedication on the part of each student. Courses are presented with the expectation of an average of about two hours of 'outside' work for each lecture hour and about one-half hour of 'outside' work for each hour spent in the laboratory for all programmes of study.

71.2.2 MEMBERSHIP IN THE ORDER OF ENGINEERS OF QUEBEC

The Order of Engineers of Quebec (OEQ) has fully accredited the Bachelor of Engineering curricula in Civil, Electrical, and Mechanical Engineering; and will admit graduates of these three programmes as members according to the Engineers Act and the OEQ By-Laws and providing applicants can complete the French language requirements.

Quebec law now requires that candidates seeking admission to provincially-recognized Quebec professional corporations (such as the Order of Engineers of Quebec), be tested on their ability in the French language.

Information on this testing program of the Office de la langue française may be obtained by writing to: Office de la langue française, 800 Place Victoria, 15^{e} étage, Montréal, Québec, H4Z 1G8, telephone: 873-8361.

71.2.3 ACCREDITATION BY THE CANADIAN COUNCIL OF PROFESSIONAL ENGINEERS

The Accreditation Board of the Canadian Council of Professional Engineers (CCPE) has accredited the Bachelor of Engineering curricula in the Departments of Civil, Electrical, and Mechanical Engineering. The Board has recommended to the Constituent Associations of CCPE that graduation from the above curricula be considered as sufficient academic qualification for purposes of registration in all Provinces and Territories in Canada.

71.2.4 ENGINEERING CORE

To be recommended for the degree of Bachelor of Engineering, students admitted after January 1979 must satisfactorily complete the following courses as well as those specified for their programme, as shown in subsequent sections. Students admitted for January 1979 or earlier should consult the Programme Guide available in the Assistant Deans' Office.

*CHEM C205	General Chemistry I	3.00
*COMP C211	Introduction to Computers and Computing	3.00
*PHYS C204	Mechanics	3.00
*PHYS C205	Electricity and Magnetism	3.00
*PHYS C224	Introduction to Experimental Mechanics	1.00
*PHYS C225	Introduction to Experimental Electricity	1.00
*EMAT C212	Calculus and Differential Equations	3.00
*EMAT C232	Matrices and Advanced Calculus	3.00
*EMAT C271	Applied Probability and Statistics	3.00
*ENGR C212	Technical Drawing	2.00
*ENGR C273	Basic Circuit Analysis	3.75
*ENGR C281	Technical Literature	2.00
ENGR C402	Engineering Law	1.50
**ENGR C410	Technical Report	1.50

6 credits chosen from the 'Social Aspects of Engineering' group. ***

ENGR C491	Engineers and Society	3.00
ENGR C492	Historical Impact of Technology on Society	3.00
ENGR C493	Engineering, Resources & Environment	3.00
ENGR C494	Effect of Technology on the Person	3.00
ENGR C495	Assessment and Direction of Technology	3.00
ENGR C496	Technology and Human Affairs	3.00
		39.75

* *Offered in both Day and Evening.*

** *To be submitted at the beginning of the academic year in which the student expects to graduate.*

*** *Students in the Combined Programme in Building Engineering must successfully complete BLDG C481 as part of the 6 credit requirement. (For all students, 3 of these 6 credits may be replaced by a specified course or courses in French, subject to the approval of the Assistant Dean, Undergraduate Student Affairs. A list of such courses is available from the Assistant Dean's Office.)*

71.2.5 GRADUATION REQUIREMENTS

Students must complete their programme in acceptable standing.

71.2.6 SCHEDULING OF COURSES

A programme guide indicating course schedules for both the 6 and 8 term Engineering, and Computer Science sequences is available from the Faculty Office on either campus. The programme in Building Engineering leading to the combined degrees of B. Eng. (Civil) and M. Eng. (Building) will normally require a minimum of 9 terms for completion.

71.3 Centre for Building Studies

Director and Professor of Building Engineering
PAUL P. FAZIO

Associate Director and Associate Professor
ALAN D. RUSSELL

Professor
CEDRIC MARSH

Associate Professors
DOREL FELDMAN
RICHARD W. GUY
H. KINH HA

Assistant Professors
HIROSHIMA HOMMA
MARK A. LANG
MARVIN M. SHAPIRO
THEODORE STATHOPOULOS
ROBERT W. WHITE

Lecturer
MAL TURAGA

Research Associate Professor
DONALD COLLINS

Research Assistant Professor
ABDUL ALI

Research Associates
MILICA CONKIC
NORMAN LOW

Adjunct Professors
PETER M. BLAIKIE
WILLIAM W. DAWSON
NEIL HUTCHEON
PIERRE MARCOTTE
ANTHONY SODA

CENTRE FOR BUILDING STUDIES

A unique programme in engineering education has been developed by the Centre for Building Studies in response to trends in the building industry. These trends include large and more complex projects, the need for the conservation of scarce resources and changes in the methods of project delivery. Important educational implications arising from these trends include the need for more interdisciplinary knowledge, acquaintance with more rigorous analysis and design techniques and greater knowledge of economics, decision analysis and management techniques. The program as defined consists of an integrated bachelor's and masters program which may be completed in four years and which builds on two proven degree programs, these being the Bachelor of Engineering (Civil) and the Master of Engineering (Building). The combined program has been given the designation Building Engineering. Building Engineering, as a discipline, encompasses the body of knowledge which pertains to all phases in the life-cycle of a constructed facility, namely conception, planning, design, construction, operation and disposal. Students who successfully complete the program will receive two degrees: Viz Bachelor of Engineering (Civil) and Master of Engineering (Building). The program has been designed to appeal to students who aspire to leadership roles within the building industry and who can maintain an accelerated pace of studies.

The services of the building engineer will be sought by consultants, owners, contractors, manufacturers, government and research and educational institutions. His/her talents will be applied to all phases in the life cycle of various types of built facilities which include commercial, residential, industrial and institutional facilities as well as to the development of new innovations and knowledge pertaining to the built environment.

The programme has as its focus four branches of building engineering, these being building science, building environment, building structures, and construction management. Each student receives an in-depth treatment of the engineering fundamentals which relate to the above four branches as well as a specialist knowledge in one of these branches and a minor in one other branch.

At the undergraduate level, attention is focused on engineering mathematics, physical science and engineering fundamentals which relate to the four branches of concentration. Some emphasis is also placed on the development of decision making skills. At the graduate level, activities are focused on developing specialist knowledge in one of building science, building environment, building structures, and construction management and a minor in another branch. To further enhance the students decision-making skills, courses will also be taken on decision analysis, integrated building design and computer aided design. Depending on the career objectives of the student, he/she is also required to prepare a Project and Report, or Thesis.

Within the area known as building science, emphasis is placed on building materials, building enclosure systems and industrialized building. The area of building environment emphasizes thermal environment, acoustics

and illumination. Topics treated include the analysis and design of conventional building mechanical systems, sound isolation and noise control and innovative systems such as solar energy. The area of building structures, a shared responsibility with Civil engineering, concentrates on principles of structural analysis and design and the application of these principles to the investigation of building structural systems. The area of construction management emphasizes both what is being managed as well as the techniques of management and includes the treatment of legal and labour issues in construction, the techniques of planning, scheduling and control of construction projects and methods of construction.

71.3.1 ACADEMIC REGULATIONS

Students should refer to the section presenting the Academic Regulations of the University, §16.

Additional regulations for the combined programme in Building Engineering are as follows:

1. Students will be assessed at the end of terms 1,2,4,6,8,9.
2. In order to remain in the programme students must a) have obtained C– or better in at least ⅔ of the courses registered for at the 200 level with no more than 2 failures.
   b) have obtained B– or better in at least ⅔ of the courses registered for at the 300 level with no more than 2 failures.
   c) have obtained B or better in at least ¾ of the courses registered for at the 400 level or above with no failures.
3. a) Students who fail to meet 2a) or 2b) above must withdraw from the programme. If they are allowed to continue towards the B. Eng. degree, they may do so in the programme of their choice.
   b) Students who do not meet 2c) above but do meet 2b) for the courses taken at the 400 level or above may continue for a maximum of one year, after which they must meet condition 2c).
4. Students who either choose or are required to withdraw from the programme, may, if they are allowed to proceed under the regulations governing B. Eng. programmes, enter the undergraduate option of their choice.

71.3.2 COURSE REQUIREMENTS

The combined programme in building engineering consists of the Undergraduate Component (Engineering Core, Civil Engineering Core and Building Engineering Core), and the Graduate Component.

The nominal length for the Undergraduate Component is 128.25 credits, and for the Graduate Component, 45 credits. Adjustments may be made on an individual basis as per section 71.1.1.

71.3.3 UNDERGRADUATE COMPONENT

The undergraduate component requires successful completion of the following courses.

Engineering Core

See Section 71.2.5. Note that students in the combined degree programme must replace one of the required Social Aspects courses with BLDG C481.

Civil Engineering Core

		Credits
EMAT C311	Transform Calculus and Partial Differential Equations	3.00
EMAT C391	Numerical Methods in Engineering Systems	3.00
*ENGR C213	Descriptive Geometry	2.00
*ENGR C242	Statics	3.00
*ENGR C243	Dynamics	3.00
*ENGR C244	Mechanics of Materials I	3.75
*ENGR C251	Thermodynamics I	3.00
ENGR C341	Mechanics of Materials II	3.00
ENGR C361	Fluid Mechanics I	3.00
ENGR C362	Fluid Mechanics II	3.75
†CIVI C271	Surveying	3.00
CIVI C321	Engineering Materials	3.75
CIVI C353	Structural Design	4.00
CIVI C354	Structural Analysis	4.00
CIVI C431	Soil Mechanics	4.50
CIVI C491	Construction Engineering	3.00
		52.75

* *Offered in both day and evening*
† *Summer school to be taken before entering second year of study in the B.Eng. programme.*

Building Engineering Core

ENGR C221	Materials Science	3.00
BLDG C341	Building Engineering Systems	3.00
BLDG C361	Building Science I	4.00
BLDG C362	Building Science II	4.00
BLDG C371	Building Service Systems	3.00
BLDG C401	Building Economics	3.00
BLDG C461	Building Enclosure Design	3.00
BLDG C471	Building Environment	3.00
BLDG C475	Generation and Distribution of Power in Buildings	3.00
CIVI C435	Foundation Design	3.75
CIVI C452	Matrix Analysis of Structures	3.00
		35.75

71.3.4 GRADUATE COMPONENT

The Graduate Component requires successful completion of 45 credits. For graduate offerings, refer to the Graduate Calendar.

Common Core (9 credits)

BLDG N658	Decision Analysis
BLDG N750	Computer Aided Building Design
BLDG N751	Integrated Building Design

Branch Requirement (15 Credits from one of the following branches)
Building Science
Building Environment
Building Structures
Construction Management

Elective Credits
Chosen from other graduate courses in Building Engineering or from other graduate courses.
Thesis oriented option — 0.
Course oriented option — 15.

Project Work

Course oriented option:

Project and Report (6 credits)
ENGR N798
ENGR N799

Thesis oriented option:

Thesis (21 credits)
Registration Sequence:
ENGR 881-882, Term 7
ENGR 883-884, Term 8
ENGR 885-886, Term 9

71.4 Department of Civil Engineering

Professor of Engineering and Chairman of the Department
M. S. Troitsky

Professors
H. B. POOROOSHAB
A. S. RAMAMURTHY
Z. A. ZIELINSKI

Associate Professors
MATTHEW McC. DOUGLASS
CARL GOLDMAN
JULIUS KRANTZBERG
M. S. NASSER
OSCAR PEKAU

Assistant Professor
A. HANNA

Adjunct Professor
P. BHASKARAN

DEPARTMENT OF CIVIL ENGINEERING

Civil Engineering is primarily concerned with the creation of the complex systems of construction facilities for sound economic growth of the community. In a broad sense, civil engineers learn to control and modify the environment effectively so as to satisfy the needs and desires of society. Their responsibility for design ranges from foundations and superstructures of our common structures such as buildings, bridges, dams, tunnels, wharves, etc., to many unusual structures such as rocket installations, containment vessels for nuclear reactors, supports for radio telescopes, frame works for aircraft. In addition, civil engineers are concerned with the engineering aspects of water resources, rivers, harbours, irrigation and drainage; with the disposal of wastes and the control of the quality of air and water; with highways, railroads, airports and other transportation facilities; with measuring, mapping and interpreting the physical conditions of the surface of the earth; and with planning metropolitan areas and constructing and managing their public facilities.

The programme is designed so that students, after having obtained grounding in the fundamentals of Civil Engineering, may specialize in one of four options. Students interested in Building Studies should refer to the combined degrees of Bachelor of Engineering (Civil) and Master of Engineering (Building) in Section 71.3.

71.4.1 COURSE REQUIREMENTS

The programme in Civil Engineering consists of the Engineering Core, the Civil Engineering Core, and one of the options described below. The nominal length of the programme is 128.75 credits. Adjustments may be made on an individual basis as per Section 71.1.1. An additional option exists for those students registered in the combined degree in Building Engineering (See Section 71.3). Students admitted prior to Summer 79 should consult the programme guide available from the Assistant Deans' Office to determine their individual course requirements.

Civil Engineering Core

EMAT C311	Transform Calculus and Partial Differential Equations	3.00
EMAT C391	Numerical Methods in Engineering Systems	3.00
ENGR C213	Descriptive Geometry	2.00
*ENGR C242	Statics	3.00
*ENGR C243	Dynamics	3.00
*ENGR C244	Mechanics of Materials I	3.75
*ENGR C251	Thermodynamics I	3.00
ENGR C341	Mechanics of Materials II	3.00
ENGR C361	Fluid Mechanics I	3.00
ENGR C362	Fluid Mechanics II	3.75
†CIVI C271	Surveying	3.00
CIVI C321	Engineering Materials	3.75
CIVI C353	Structural Design	4.00
CIVI C354	Structural Analysis	4.00
CIVI C431	Soil Mechanics	4.50
CIVI C491	Construction Engineering	3.00
		52.75

* *Offered in both Day and Evening.*
† *Summer school to be taken before entering second year of study in the B. Eng. programme.*

Option Course Requirements

The Department of Civil Engineering offers options in four broad interrelated areas.
1. Structural Engineering (S)
2. Water Resources Engineering (W)
3. Transportation Engineering (T)
4. Foundations (F)

Students must complete their option core as listed below, and a minimum of six further elective credits chosen from this list.

	Elective Units	Option
ENGR C403 Engineering Economy	1.50	S, W, T, F
CIVI C231 Geology	2.75	S, W, T, F
CIVI C341 Civil Engineering Systems	3.00	S, W, T, F

	Elective Units	Option
CIVI C372 Transportation Engineering	3.00	S, W, T, F
CIVI C381 Water Resources Engineering	3.50	S, W, T, F
CIVI C434 Advanced Soil Mechanics	3.00	F
CIVI C435 Foundation Design	3.75	F
CIVI C452 Matrix Analysis of Structures	3.00	X**
CIVI C453 Advanced Reinforced Concrete Design	3.50	S
CIVI C454 Advanced Steel Structures	3.50	S
CIVI C451 Advanced Structural Analysis	4.00	S
CIVI C471 Highway Design	3.00	T
CIVI C472 Traffic Engineering	3.00	T
CIVI C474 Urban Transportation Planning	3.00	T
CIVI C481 Water Supply Systems	3.75	S, W, T, F
CIVI C482 Urban Sanitation	3.75	S, W, T, F
CIVI C483 Hydrology	3.50	W
CIVI C484 Hydraulic Engineering	3.50	W
CIVI C485 Hydraulic Structures	3.50	W, F
Minimum of:	36.25	

** *acceptable as elective course for all options shown above.*

71.5 Department of Electrical Engineering

Professor of Engineering and Chairman of the Department
ANDREAS ANTONIOU

Professors
B. B. BHATTACHARYYA
STANLEY J. KUBINA
BELA A. LOMBOS
V. RAMACHANDRAN
M. N. S. SWAMY
M. VIDYASAGAR

Associate Professors
V. K. BHARGAVA
C. CHARALAMBOUS
J. CHARLES GIGUERE
SERGE A. GRACOVETSKY
JAMES F. LINDSAY
S. D. MORGERA
V. PANUSKA
V. STEFANOVIC

Assistant Professors
M. O. AHMAD
D. T. GIBBONS
OTTO SCHWELB
C. TRUEMAN
P. D. ZIOGAS

Visiting Professor
K. THULASIRAMAN

DEPARTMENT OF ELECTRICAL ENGINEERING

Electrical Engineering is concerned primarily with energy and information: their conversion, transformation and transmission in the most efficient, convenient and reliable manner.

The electrical engineer is involved in the conversion of energy from its original mechanical, thermal, nuclear, wind or solar form to electricity. He/she has primary responsibility for the design and control of continent spanning power grids which are used to transport this energy from generating stations to the consumer. He/she is again responsible for designing efficient converters which will transform this energy back into forms which meet the needs of the user for heat, refrigeration, light, electromechanical devices of all types, and for the running of a host of electronic communications and data processing systems.

The other major field of activity of the electrical engineer is information processing and transmission. The revolution in electronics which began some thirty years ago with the invention of the transistor, and which continues to-day through the advent of the microprocessor, has had a profound impact not only on our capability to communicate with each other or to store masses of easily retrievable information about ourselves, but also on our ability to construct 'intelligent' machines. This production both of new devices, and of sophisticated applications for these devices (for example in bio-medical engineering) continues apace. While contributing to what has been, and will continue to be, a major transformation in the structure of our society, the electrical engineer may, in the course of his career, be engaged in a variety of activities: research, development, design, manufacture, operation, maintenance, control and marketing of devices and systems. In so doing, he/she will be called upon to assist or direct the efforts of other engineers, individuals or groups of people of widely varying backgrounds and abilities.

As such he/she must receive a professional education of great breadth and depth. Great emphasis is placed at Concordia on giving the student a solid foundation in mathematics, electrical engineering fundamentals and design techniques so that he/she will be equipped both to contribute and to respond to a rapidly evolving technology. Of equal importance, though much less time is devoted to it in the curriculum, is the fostering of an awareness in the student of the interaction of his/her profession and the society it serves, and of his/her ability to communicate effectively both with colleagues and with fellow citizens.

71.5.1 COURSE REQUIREMENTS

The programme in Electrical Engineering consists of the Engineering Core, §71.2.5, the Electrical Engineering Core shown below, and one of four elective options. The nominal length of the programme is 126.50 credits. Adjustments may be made on an individual basis as per Section 71.1.1.

Students admitted prior to Summer 1979 should consult the Programme Guide available in the Assistant Deans' Office.

Electrical Engineering Core

		Credits
*PHYS C206	Waves and Modern Physics	3.00
or		
PHYS C207	Heat and Sound	3.00
EMAT C252	Complex Variables	3.00
EMAT C312	Laplace Transforms and Advanced Differential Equations	3.00
EMAT C391	Numerical Methods in Engineering Systems	3.00
*ENGR C245	Applied Mechanics	3.00
*ENGR C274	Physical Systems and Measurements	3.75
ENGR C372	Fundamentals of Control Systems	3.75
ENGR C403	Engineering Economy	1.50
ENGR C411	Computer Organization and Software	3.75
*ELEC C251	Fundamentals of Electrical Engineering	3.00

ELEC C311	Electronics I	4.50
ELEC C312	Electronics II	4.50
ELEC C321	Electrical Properties of Materials	3.75
ELEC C331	Electromechanics	4.50
ELEC C341	Linear Network Analysis	3.00
ELEC C351	Electromagnetic Field Theory	3.00
ELEC C401	Electrical Engineering Seminar	1.00
ELEC C413	Logic Design I	3.75
ELEC C461	Communication Circuits and Systems	3.75
		62.50

* *Offered in both Day and Evening.*

Technical Electives

Programme Requirements include the completion of one of four options:

1. **Electronics/Communications Option**

Students must complete a minimum of 24.25 credits from:

	Credits
ELEC C411 Pulse Circuits	4.50
ELEC C414 Logic Design II	3.75
ELEC C415 Electronics III	3.75
ELEC C417 Microprocessor Systems	3.75
ELEC C421 Semiconductor Physics	3.75
ELEC C422 Analog IC Design	4.50
ELEC C423 Digital IC Design	3.75
ELEC C441 Modern Filter Design	3.75
ELEC C442 Digital Filters	3.00
ELEC C453 Microwaves and Optics I	3.75
ELEC C454 Microwaves and Optics II	3.75
ELEC C455 Acoustics	3.00
ELEC C462 Statistical and Digital Communications	3.75
ELEC C481 Electrical Engineering Project	4.00
ELEC C482 Topics in Electrical Engineering	3.00

2. **Computer Engineering Option**

Students must complete:

	Credits
ENGR C474 Digital Computers in Systems	3.75
ELEC C411 Pulse Circuits	4.50
ELEC C414 Logic Design II	3.75
ELEC C416 Design of Digital Computers	3.00

Students must also choose a minimum of 9.25 credits from:

*COMP C241 Computer Languages and Programming	3.00
ENGR C471 Time Domain Analysis and Design	4.00
ENGR C472 Studies in System Optimization	4.50
*ELEC C316 Fundamentals of Discrete Structures	2.00
ELEC C417 Microprocessor Systems	3.75
ELEC C442 Digital Filters	3.00
ELEC C462 Statistical and Digital Communications	3.75
ELEC C481 Electrical Engineering Project	4.00
ELEC C482 Topics in Electrical Engineering	3.00

**Students who wish to enter the M. Comp. Sc. programme should register for COMP C241 and ELEC C316.*

3. **Power Option**

Students must complete:

	Credits
ELEC C333 Electric Machines	3.75
ELEC C431 Electrical Power Systems	3.75
ELEC C433 Static Power Converters	3.75

Students must also choose a minimum of 13.00 credits from:

	Credits
ENGR C412 Operations Research	3.00
ENGR C471 Time Domain Analysis and Design	4.00
ENGR C472 Studies in System Optimization	4.50
ENGR C473 Control System Design	3.75
ENGR C474 Digital Computers in Systems	3.75
ELEC C411 Pulse Circuits	4.50
ELEC C414 Logic Design II	3.75
ELEC C417 Microprocessor Systems	3.75
ELEC C481 Electrical Engineering Project	4.00
ELEC C482 Topics in Electrical Engineering	3.00

4. **Systems Option**

Students must complete:

	Credits
ENGR C471 Time Domain Analysis and Design	4.00
ENGR C472 Studies in System Optimization	4.50
ENGR C473 Control System Design	3.75

Students must also choose a minimum of 12.00 credits from:

	Credits
ENGR C412 Operations Research	3.00
ENGR C474 Digital Computers in Systems	3.75
ELEC C414 Logic Design II	3.75
ELEC C417 Microprocessor Systems	3.75
ELEC C431 Electrical Power Engineering	3.75
ELEC C441 Modern Filter Design	3.75
ELEC C442 Digital Filters	3.00
ELEC C462 Statistical and Digital Communications	3.75
ELEC C481 Electrical Engineering Project	4.00
ELEC C482 Topics in Electrical Engineering	3.00

71.6 Department of Mechanical Engineering

Professor of Engineering and Chairman of the Department
T. S. SANKAR

Professors
R. M. H. CHENG
M. P. DUPLESSIS
C. C. K. KWOK
H. J. McQUEEN
M. O. M. OSMAN

Associate Professors
W. G. HABASHI
F. D. HAMBLIN
S. KATZ
K. I. KRAKOW
S. LIN
R. A. NEEMEH
S. SANKAR
G. D. XISTRIS

Assistant Professors
A. E. BLACH
V. HOA
A. J. SABER
J. SVOBODA

Research Assistant Professors
B. M. BAGHAT
R. B. BHAT
R. R. GUNTUR
T. KREPEC
P. M. LEE

Research/Teaching Associates
A. E. FAHIM
G. GUREWITZ
V. LATINOVIC
R. LEE
A. M. SHARAN
N. SURESH
G. WARNER

Adjunct Associate Professors
G. M. McKINNON
J. WILSON

Adjunct Assistant Professors
R. DUKKIPPATI
A. ELGABRY
K. KIVENKO
D. T. MY
M. D. O'RIAIN
M. SAMAHA

DEPARTMENT OF MECHANICAL ENGINEERING

As in all branches of professional engineering, mechanical engineers are concerned with the creation of devices, systems, structures, and processes for human use. Their task is to apply scientific, mathematical, economic and social knowledge to satisfy specific needs. The services required of mechanical engineers encompass a very wide range of professional activity, such as design, research, development and management carried out in environments of equally diverse nature, such as industry, medicine, private practice, university and government.

Representative fields of endeavour for mechanical engineers include all forms of power generating equipment (steam, internal combustion, nuclear, jet rocket, fuel cells), the design of mechanisms and machines, controls and automation, vibration analysis, environmental control (heating, ventilation and refrigeration), materials handling and precision measurement.

Any of the specific fields may involve the design, construction and control of machines and equipment as well as the research and development of new processes, materials and techniques.

In view of the very wide range of activities in the field, the mechanical engineering curriculum consists of a combination of core courses with a series of technical electives. Strong emphasis is given to building on the principles presented in the basic engineering science and physical systems courses of the General Requirements. Further core courses are taken by all mechanical engineering undergraduates and deal with topics basic to the field, including control theory, thermodynamics, fluid mechanics, heat transfer, machine design and metallurgy. Technical electives allow students to obtain some specialization in a particular area of the field, depending on their interests and expected future professional activity. Three general areas of specialization are available, namely conventional mechanical engineering which emphasizes thermal fluid power (Option A), design and production engineering (Option B), and electro-mechanical systems, including control systems (Option C).

71.6.1 COURSE REQUIREMENTS

The programme in Mechanical Engineering consists of the Engineering Core, Section 71.2.5, the Mechanical Engineering Core shown below, one of three option cores, and a minimum of 12.00 further elective credits. The nominal length of the programme is 132.50 credits. Adjustments may be made on an individual basis as per Section 71.1.1.

Students admitted prior to Summer 1979 should consult the Programme Guide available in the Assistant Deans' Office.

Mechanical Engineering Core

		Credits
EMAT C311	Transform Calculus and Partial Differential Equations	3.00
*ENGR C213	Descriptive Geometry	2.00
*ENGR C214	Engineering Drawing	2.00
*ENGR C221	Materials Science	3.00
*ENGR C242	Statics	3.00
*ENGR C243	Dynamics	3.00

*ENGR C244	Mechanics of Materials I	3.75
*ENGR C251	Thermodynamics I	3.00
*ENGR C274	Physical Systems and Measurements	3.75
ENGR C361	Fluid Mechanics I	3.00
ENGR C362	Fluid Mechanics II	3.75
ENGR C372	Fundamentals of Control Systems	3.75
ENGR C403	Engineering Economy	1.50
MECH C311	Mechanical Engineering Laboratory I	3.00
MECH C312	Mechanical Engineering Design I	3.00
MECH C321	Stress and Failure in Metals	3.00
MECH C341	Kinematics of Mechanisms	2.50
MECH C342	Dynamics of Machines	2.50
MECH C351	Thermodynamics II	3.75
MECH C352	Heat Transfer I	3.75
MECH C373	Instrumentation and Measurements	3.75
MECH C411	Mechanical Engineering Laboratory II	3.00
MECH C441	Mechanical Engineering Design II	3.00
ELEC C334	Electric Machinery	3.75
		73.50

* *Offered in both day and evening*

Technical Electives

Students must complete one option core and a minimum of 12.00 further elective credits.

1. **Option A — Thermal Fluid Power**

	Credits
MECH C452 Heat Transfer II	3.75
MECH C461 Gas Dynamics	3.75

2. **Option B — Design and Production**

	Credits
MECH C421 Deformation and Mechanical Shaping of Metals	3.75
MECH C445 Machine Design	3.50

3. **Option C — Automation and Control Systems**

	Credits
ENGR C473 Control System Design	3.75
MECH C463 Fluid Power Control	3.75

	Preferred for Option	*Credits*
EMAT C391 Numerical Methods in Engineering Systems	A,B,C	3.00
ENGR C411 Computer Organization and Software	B,C	3.75
ENGR C412 Operations Research	B	3.00
ENGR C473 Control System Design	A,B	3.75
ENGR C474 Digital Computers in Systems	B,C	3.75
ENGR C475 Process Dynamics and Control	A,C	3.75
ELEC C311 Electronics I	A,B,C	4.50
MANA C345 Production Management	B	3.00
MECH C423 Thermal Treatment and Processing of Metals	A,B,C	4.00
MECH C443 Mechanical Vibrations	A,B,C	3.75
MECH C453 Environmental Control	A,B,C	3.00
MECH C455 Introduction to Nuclear Engineering	A,C	3.00
MECH C462 Fluid Machinery	A	3.00
MECH C463 Fluid Power Control	B	3.75
MECH C471 Microprocessors and Applications	B,C	3.00
MECH C481 Design or Experimental Project	A,C	3.00

Students may also choose from the following courses, providing these can be accommodated within their timetable:

		Credits
ENGR C471 Time Domain Analysis and Design	B,C	4.00
ENGR C472 Studies in System Optimization	C	4.50
ELEC C312 Electronics II	C	4.50

71.7 Course Descriptions

Please note that new course numbers have been implemented. For equivalent course numbers under the old system, please consult §200.6. Students who have taken a given course under an old number may not repeat it for credit under an equivalent number.

Engineering Mathematics

EMAT C212
Calculus and Differential Equations
(3 credits)

Vector functions of one variable, with applications. Introduction to ordinary differential equations. Functions of several variables: differentiation and multiple integrals.
Lectures: 3 hours per week.
Tutorials: 2 hours per week.
Prerequisite: CEGEP Math 203

EMAT C232
Matrices and Advanced Calculus
(3 credits)

Matrix algebra, characteristic value problems, diagonalization of Hermitian matrices. Cayly-Hamilton theorem and applications, quadratic forms, vector calculus.
Lectures: 3 hours per week.
Tutorials: 2 hours per week.
Prerequisite: EMAT C212 previously or concurrently.

EMAT C252
Complex Variables (3 credits)

Algebra of complex numbers in Cartesian and polar forms; functions and inverse functions of complex variables. Derivatives and Cauchy-Riemann, analytic and harmonic functions. Exponential, trigonometric, hyperbolic and logarithmic functions. Complex line integrals, Cauchy-Goursat theorem, Cauchy integral formula. Taylor's and Laurent's series. Residue theorem and applications.
Lectures: 3 hours per week.
Prerequisites: EMAT C212; EMAT C232; previously or concurrently.

EMAT C271
Applied Probability and Statistics
(3 credits)

Elementary probability theory. Binomial, normal and Poisson distribution. Sampling and decision theory. Curve fitting. Correlation theory. Applications to the analysis of experimental results. Factorial plans.
Lectures: 3 hours per week.

EMAT C311
Transform Calculus and Partial Differential Equations (3 credits)

Elements of complex variables. The Laplace transform: Laplace transforms and their properties, solution of linear differential equations with constant coefficients. Further theorems and their applications. The Fourier transform: orthogonal functions, expansion of a function in orthogonal functions, the Fourier series, the Fourier integral, the Fourier transform, the convolution theorem. Partial differential equations: physical foundations of partial differential equations, introduction to boundary value problems.
Lectures: 3 hours per week.
Prerequisite: EMAT C232.

EMAT C312
Laplace Transforms and Advanced Differential Equations (3 credits)

The Laplace Transform, its inverse and properties. Laplace Transform of periodic functions. Applications to solution of linear differential equations with constant coefficients. Orthogonal functions, Fourier series, Fourier Transform. The convolution theorem. Properties of special functions (e.g. Bessel, Legendre). Partial differential equations and introduction to boundary value problems. The Sturm Liouville problem.
Lectures: 3 hours per week.
Prerequisites: EMAT C232 and C252.

EMAT C391
Numerical Methods in Engineering Systems (3 credits)

Methods of numerical solution of mathematical models in engineering. Interpolation. Quadratures for numerical differentiation and integration of tabulated functions. Zeros of polynomials. Systems of linear and non-linear algebraic equations. Numerical solutions of ordinary differential equations using single and multi-step methods. Analysis of round-off and discretization errors. Numerical techniques for the inversion of matrices, and for determining eigenvalues and eigenvectors of matrices, state vectors, transfer vectors and matrices.
Lectures: 3 hours per week.
Prerequisites: EMAT C212 and C232.

Engineering

ENGR C212
Technical Drawing (2 credits)

Elements of graphic geometry, orthographic projections, pictorial views, sectional and auxiliary views, dimensioning, standard components, conventions, working drawings. Free-hand pictorial and orthographic sketching.
Lectures: 2 hours per week.
Tutorial: 2 hours per week.

ENGR C213
Descriptive Geometry (2 credits)

Spatial relationships of points, lines, planes, and solids. Application to pictorial representation of three-dimensional objects, intersections of planes and solids, developments, mapping and topographical problems.
Lectures: 2 hours per week.
Tutorial: 2 hours per week.
Prerequisite: ENGR C212.

ENGR C214
Engineering Drawing (2 credits)

Detailed study of machine elements and components, their representation in design and working drawings. Industry standards, use of drafting manuals and catalogs in the process of design. Tolerance systems and true positioning. An individual student design/drafting project will be an integral part of this course.
Lectures: 2 hours per week.
Tutorial: 2 hours per week.
Prerequisite: ENGR C213.

ENGR C221
Materials Science (3 credits)

Relationships between properties and internal structure; classification of materials; atomic bonding; molecular, crystalline and amorphous structures; crystal imperfections and mechanisms of structural change; microstructures; structures and mechanical properties of polymers. Phase diagrams. Introduction to heat treatment.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Prerequisite: CEGEP Chemistry 101.

ENGR C242
Statics (3 credits)

Resultant of force systems: equilibrium of particles and rigid bodies; distributed forces; statically determinate systems; cables and trusses; friction; moments of inertia; virtual work. Introduction to stress, strain and bending moment diagrams.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Prerequisites: EMAT C212 previously or concurrently; CEGEP Physics 101 or 201.

ENGR C243
Dynamics (3 credits)

Kinematics of a particle and rigid body; forces and accelerations; work and energy; impluse and momentum; dynamics of a system of particles and rigid bodies, introduction to vibrations.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Prerequisites: EMAT C212 and ENGR C242.

ENGR C244
Mechanics of Materials I (3.75 credits)

Stress, strain and elasticity; analysis and design of structural and machine elements subject to axial, torsional and bending loads; shear and bending moment diagrams; deflections; combined stresses; dynamic loading; repeated loads, stress concentration and fatigue.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Tutorial: 1 hour per week.
Prerequisites: ENGR C242, EMAT C212, EMAT C232 previously or concurrently.

ENGR C245
Applied Mechanics (3 credits)

Resultants of force systems, equilibrium of particles and rigid bodies. Virtual work, stress and strain. Kinematics of particles and rigid bodies; force and acceleration, impulse and momentum, dynamics of particles and rigid bodies.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Prerequisites: CEGEP Physics 201 or 101; EMAT C212.

ENGR C251
Thermodynamics I (3 credits)

Basic principles of thermodynamics and their application to various systems composed of pure substances and their homogeneous non-reactive mixtures. Simple power production and utilization cycles.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Prerequisite: CEGEP Math 103.

ENGR C273
Basic Circuit Analysis (3.75 credits)

Current, voltage, power and energy; resistance, inductance and capacitance; sources. Series and parallel circuits. Formulation of equilibrium equations using node-to-datum voltages and using mesh currents. Networks theorems: Superposition, reciprocity, Thevenin, Norton, maximum power transfer. Step response of simple RC, RL and RLC circuits. Sinusoidal steady-state response of RLC circuits, power in a.c. circuits, frequency response, resonance. Coupled coils and transformers.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: EMAT C212, previously or concurrently; CEGEP Physics 201 or 202.

ENGR C274
Physical Systems and Measurements (3.75 credits)

Time differentiation, time integration, and singularity functions. Network representation of mechanical, fluid and thermal systems in terms of lumped elements and through and across variables. Generalization of the methods of the basic electrical circuit analysis to the formulation of equilibrium equations and their solution. Application to problems of modelling and measurements in physical systems. Generalized impedance and system functions. Operational block diagrams and analog computer solutions.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ENGR C273.

ENGR C281
Technical Literature (2 credits)

Discussion of the corpus of scientific and technical literature, its forms and impact. Searching the literature. Research and referencing methods. Automated information retrieval sources and methods. Technical and scientific style. Preparation of reports, technical papers, abstracts, memos, letters, manuals, brochures, specifications, theses, etc. Some attention will be given to the special requirements of the Canadian milieu, and to Canadian studies on scientific and technical information.
Lectures: 2 hours per week.

ENGR C341
Mechanics of Materials II (3 credits)

Analysis of statically indeterminate systems; composite beams; introduction to inelastic action; energy methods; theories of

failure; shear centre; unsymmetrical bending; bending of curved bars; introduction to linearized mathematical theory of elasticity; introduction to elastic stability.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Prerequisites: EMAT C232, ENGR C244.

ENGR C361
Fluid Mechanics I (3 credits)

Fluid properties and flow characteristics; fluid statics, basic laws for systems and control volumes, conservation of mass, linear-momentum equation, moment-of-momentum equations, first law of thermodynamics, Bernouli equation, kinematics of flow, dynamics of flow, dimensional analysis and similitude, characteristics of real fluid flow, flow measurement.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Prerequisites: EMAT C212 and C232; ENGR C251.

ENGR C362
Fluid Mechanics II (3.75 credits)

Incompressible viscous flow, steady closed conduit flow, fluid resistance and boundary layer effects, differential equations for open channel flow, specific energy, gravity waves hydraulic jump. Fluid machinery. Selected experiments in incompressible flow and in open channel flow.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ENGR C361.

ENGR C372
Fundamentals of Control Systems
(3.75 credits)

General feedback theory; time and frequency domain analysis of feedback control systems; stability criteria; root-locus methods; modelling of d.c. servo; design of simple feedback systems; introduction to states-pace methods.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: EMAT C311 or C312; ENGR C274.

ENGR C402
Engineering Law (1.5 credits)

Different branches of law; engineering registration; negligence; law vs. ethics; contracts; labour organizations and legislation; workmen's compensation act.
Lectures: 1½ hours per week.

ENGR C403
Engineering Economy (1.5 credits)

Organization and financing of business enterprise; functions of management; CPM and PERT; economy studies for decision making, annual cash, present worth, and rate of return methods; multiple alternatives; depreciation; income tax.
Lectures: 1½ hours per week.

ENGR C410
Technical Report (1.5 credits)

All Engineering students must submit a technical report on entering their final year. This report should be from 2,000 to 5,000 words in length, on a topic drawn from the engineering experience of the student during the summer work. If a suitable topic based on personal experience is not available, students may write on a topic connected with engineering, scientific or industrial work. Students are advised to consult their department concerning the suitability of the proposed topic. If it is judged suitable, the letter of approval must accompany the report.

The report, including an abstract, must be suitably documented and illustrated, must be typewritten on one side only of 8½'' x 11'' white paper of good quality and must be suitably bound. Students are referred to Form and Style: Theses, Reports, Term Papers, 4th Edition by Campbell and Ballou, published by Houghton Mifflin.

The original and two photocopies which will be used for marking must be submitted to the office of the Assistant Dean, Undergraduate Student Affairs, by 5:00 p.m. on the third Monday after Fall classes begin. With the exception of special circumstances approved by the Engineering Undergraduate Studies Committee in individual cases, any acceptable report submitted after this date will receive an FF-INC grade, which grade will appear on the student record. Once marked, a second entry of the course code will be made along with the final grade. An (X) beside this second grade will indicate that this was a late submission.
Prerequisite: ENGR C281.

ENGR C411
Computer Organization & Software
(3.75 credits)

Number systems and codes. Logical basis of computer structure; machine organization and functional units; machine programming including subroutines, linkages, macros and assembly systems; compilers and operating systems. Difference between mainframe, mini, and microcomputer systems.
Lectures: 3 hours per week.
Laboratory: 1½ hours per week.
Prerequisite: CEGEP Data Processing 911 or equivalent.

ENGR C412
Operations Research (3 credits)

An introduction to the application of mathematical models to various industrial problems; queuing theory, game theory, linear programming, inventory theory and Monte Carlo Processes.
Lectures: 3 hours per week.
Prerequisite: CEGEP Data Processing 911 or equivalent.

ENGR C471
Time Domain Analysis and Design
(4 credits)

State space analysis and design of continuous and discrete systems. Controllability and observability, modal control, pole placement techniques, Luenberger observers, Liapunov stability.
Lectures: 4 hours per week.
Prerequisite: ENGR C372.

ENGR C472
Studies in System Optimization
(4.5 credits)

Various techniques of system optimization, such as calculus of variations, Pontryagin's maximum principle, as well as some numerical methods, are studied. These techniques are applied to real systems in fields such as

engineering, management and economics.
Lectures: 3 hours per week.
Laboratory: 3 hours per week.
Prerequisite: ENGR C471

ENGR C473
Control System Design (3.75 credits)

A course in industrial control design procedures by case study, including practical sensing, control, and actuating elements; optimization of system performance by choice of components and compensation; nonlinearities, introduction to multi-loop systems.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ENGR C372.

ENGR C474
Digital Computers in Systems
(3.75 credits)

Application of digital computers to data acquisition and control systems; coding and data transmission; types of I/O and instrumentation for real-time applications. Design of real-time systems; the role of a real-time executive. Simulation of discrete-time systems.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: ENGR C411 or COMP C322; ENGR C372.

ENGR C475
Process Dynamics and Control
(3.75 credits)

Dynamics of mechanical and chemical processes: system capacity; resistance; piping complexes; characteristics and dynamics of control valves; process time constants; proportional, reset and derivative control actions; feedforward and cascade control; direct digital control. Case studies on liquid-level control, temperature and heat exchanger control.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ENGR C372.

Social Aspects of Engineering

ENGR C491
Engineers and Society (3 credits)

Sociological analysis of the interaction between the engineering profession and society, the development of the profession, growth of technical societies, trends in engineering and engineering technology education, relationship to other professions. Role of engineers in Canadian industry, government and industrial research.
Lectures: 3 hours per week.
Prerequisites: ENGR C281; registration in the final 3 terms of the programme.

ENGR C492
Historical Impact of Technology on Society (3 credits)

Social history of technology and of science including ancient and mediaeval periods, industrial revolution and modern times. Engineering and scientific creativity, social and environmental problems created by uncontrolled technology, appropriate technology.
Lectures: 3 hours per week.
Prerequisites: ENGR C281; registration in the final 3 terms of the programme.

ENGR C493
Engineering, Resources and Environment
(3 credits)

Sources, consequences and control of air, water, noise, solid and radiation pollution. Management of mineral and energy resources. Conservation of resources through engineering efficiency, recycling and communal practices. Renewable resources. Case studies of engineering projects.
Lectures: 3 hours per week.
Prerequisites: ENGR C281; registration in the final 3 terms of the programme.

ENGR C494
Effect of Technology on the Person
(3 credits)

Psychological effects of various technologies. Changes in personal, family and community values arising from various patterns of industrial development. Enhancement of personal development by technology, adaptation of the machine to man; the organization man.
Lectures: 3 hours per week.
Prerequisites: ENGR C281; registration in the final 3 terms of the programme.

ENGR C495
Assessment and Direction of Technology
(3 credits)

Science policy, technology transfer, research and industrial innovation, information networks. Environmental impact assessment, technology assessment, technological forecasting, future studies, conserver society.
Lectures: 3 hours per week.
Prerequisites: ENGR C281; registration in the final 3 terms of the programme.

ENGR C496
Technology and Human Affairs (3 credits)

An examination of the social and historical context of scientific and technological change, including the reciprocal interactions of science and technology with government, ideology, economic development, religion, literature and social theory. The scientific, social and cultural nature of man's relationship to his environment with emphasis on pollution, conservation, population, and resources.
Lectures: 3 hours per week.
Prerequisites: ENGR C281; registration in the final 3 terms of the programme.

Building Engineering

BLDG C341
Building Engineering Systems (3 credits)

Introduction to systematic solution of building engineering problems. Techniques treated include linear programming, network analysis, nonlinear programming, geometric programming and an introduction to decision analysis and simulation. Techniques illustrated by application to problems in building science, building environment, building structures and construction management.
Lectures: 3 hours per week.
Prerequisites: EMAT C271; COMP C211.

BLDG C361
Building Science I (4 credits)

General introduction to the thermal environment: perception, measurement and control. Topics include: heat, temperature, thermal storage, conduction: steady state and transient processes. Convection: Natural and forced. Radiation. Combined radiative and convective surface transfer. Psychrometrics. Thermal comfort. Condensation: Surface and interstitial. Wind and snow effects.
Lectures: 3 hours per week.
Laboratory: 2 hours per week.
Tutorial: 1 hour per week.
Prerequisite: ENGR C251

BLDG C362
Building Science II (4 credits)

General introduction to the aural and visual environment. Subjective and objective measurement: scales of measurement. Laws of psychophysics. The hearing mechanism. Transfer of sound. Passive control of noise in buildings: transmission loss. Absorption and reverberation time. Active control of the aural environment. Visual perception. Photometry, brightness, luminance and illumination. Natural lighting of buildings. Artificial lighting. Colorimetry.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Laboratory: 2 hours per week.
Prerequisite: ENGR C243; BLDG C361

BLDG C371
Building Service Systems (3 credits)

Principles of design of building service systems, including HVAC systems, lighting and water supply systems, and vertical transportation systems. Inter-relationships and economics of various service systems.
Lectures: 2 hours per week.
Laboratory: 2 hours per week.
Prerequisites: ENGR C251; ENGR C362 previously or concurrently.

BLDG C401
Building Economics (3 credits)

Development of economic performance measures of interest to developers, owners, contractors and users. Sources of finance and the determinants of the cost of money. Treatment of: life cycle costing; economic risk; tax regulation; inflation; forecasting techniques; model building; cost indices; elemental estimating; computerized information systems. Consideration of non-economic analyses of projects, single buildings and building components.
Lectures: 3 hours per week.
Prerequisite: BLDG C341

BLDG C461
Building Enclosure Design (3 credits)

Functional requirements of enclosure systems. Analysis of economic, technological and legal constraints. Development of performance criteria for enclosure envelope and the internal environment. Design of enclosure components and environmental systems. Analytic and experimental techniques of evaluation of enclosure performance.
Lectures: 3 hours per week.
Prerequisites: BLDG C362 and CIVI C321.
Note: Students having completed CIVI C411 may not take this course for credit.

BLDG C471
Building Environment (3 credits)

Principles of design of interior environmental systems including thermal comfort, thermal load and HVAC systems analysis, acoustical comfort and illumination.
Lectures: 2 hours per week.
Laboratory: 2 hours per week.
Prerequisites: BLDG C371

BLDG C475
Generation and Distribution of Power in Buildings (3 credits)

Principles of operation and control of plant within the built environment including; diesel and gas engines, boiler plants, refrigeration plants, turbines, compressors and electrical machinery. Electrical power distribution, transformers, switch gears and safety aspects.
Lectures: 3 hours per week.
Prerequisites: ENGR C251; ENGR C273.

BLDG C481
Architectural Appreciation and Design (3 credits)

Influences of socio-cultural patterns and functions on the evolution of building design. Qualitative study of structural systems in relation to architecture. Development for analysis and synthesis of built form and incorporated functions. Interactions of people, function, form, and environment.
Lectures: 3 hours per week.
Prerequisite: Completion of 20 courses. Open only to students in Building Engineering, and students enrolled in the structures and foundations options of Civil Engineering.

BLDG N658
Decision Analysis (3 credits)

Development of a basic theory of decision making under uncertainty. Rationales of decision makers, utility, the concept of the value of perfect information. The Bayesian approach to decision making; preposterior analysis and optimal fixed-sized analysis for random processes. Decision analysis with multiple objectives, structuring the problem, multiattributed utility functions, case studies.
Lectures: 3 hours per week.
Prerequisites: BLDG C341, EMAT C271.

BLDG N750
Computer Aided Building Design (3 credits)

Identification of objectives, decision variables, processes and information flow in building design. Application and evaluation of computer systems to components of building design process. Determination of decision variables in problem modeling and sensitivity of results. Current applications in structural analysis and design, space layout, electrical distribution systems, HVAC design, lighting design, estimating, specification editing and scheduling. Evaluation of issues of interdisciplinary information control and interchange.
Lectures: 3 hours per week.
Prerequisites: BLDG N655, N656.

BLDG N751
Integrated Building Design (3 credits)

Analysis and synthesis of integrated multifunctional systems — (structural, mechanical, electrical, hydraulic, and construction).

Consideration of resource usage, flexibility and cost.
Lectures: 3 hours per week.
Prerequisites: BLDG N655, N656.

Civil Engineering

CIVI C231
Geology (2.75 credits)

Basic principles of physical and structural geology, with emphasis on topics related to Civil Engineering; study of minerals, rocks and soil types, load formation, techniques of air photo interpretations and geological maps.
Lectures: 2 hours per week.
Laboratory: 3 hours per week, alternate weeks.

CIVI C271
Surveying (3 credits)

Elementary operations employed in engineering surveying; use, care and adjustment of instruments; linear and angular measurements; traversing; earthwork calculations; theory of errors; horizontal and vertical curves and curve layout; slope stakes and grades, application of surveying methods to city, and topographic surveying and introduction to advanced surveying techniques; use of digital computers in surveying calculations.

Summer school taken before entering second year of study in the B. Eng. programme.
Lectures and Field Work: 8 hours per day; 6 days per week for 3 weeks.

CIVI C321
Engineering Materials (3.75 credits)

Microscopic properties of materials; engineering properties of structural metals; behaviour of wood; production and properties of concrete; bituminous materials, ceramics, plastics; introduction to composite materials.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.

CIVI C341
Civil Engineering Systems (3 credits)

Development of concepts and techniques commonly associated with systems engineering which are applicable to the design and operation of systems that concern Civil Engineers. Problem formulation, optimization, linear programming, sequencing, routing and scheduling, mathematical expectation, random models and queues. The techniques developed are used to solve problems in Transportation, Water Resources, Structures and Construction Management.
Lectures: 3 hours per week.
Prerequisite: Registration in second year in Civil Engineering programme; EMAT C271; CEGEP Data Processing 911 or equivalent.

CIVI C353
Structural Design (4 credits)

Behaviour and design of steel members: beams, columns, and beam-columns. Riveted, bolted, and welded connections. Behaviour and design of reinforced concrete members. Design of timber members.
Lectures: 3 hours per week.
Laboratory: 2 hours per week.
Prerequisite: ENGR C341 previously or concurrently.

CIVI C354
Structural Analysis (4 credits)

Analysis of statically determinate structures: influence lines, deflections. Analysis of statically indeterminate structures: the method of consistent deformations, the three moment equation, the slope deflection, and the moment distribution methods.
Lectures: 3 hours per week.
Laboratory: 2 hours per week.
Prerequisite: ENGR C341 previously or concurrently.

CIVI C372
Transportation Engineering (3 credits)

A survey of all transportation modes and introduction to some recent concepts of transportation system planning. Social and economic importance of transportation; essential elements of a transportation system, characteristics of different transportation modes.
Lectures: 3 hours per week.
Prerequisites: Registration in second year of the Civil Engineering programme; CIVI C341.

CIVI C381
Water Resources Engineering (3.5 credits)

Open channel hydraulics; critical flow, uniform and non-uniform flows; design of erodible and non-erodible channels; flow profile, classification and computation. Practical problems.
Lectures: 2 hours per week.
Laboratory: 3 hours per week.
Prerequisites: ENGR C362, CIVI C231 previously or concurrently; EMAT C271.

CIVI C431
Soil Mechanics (4.5 credits)

Index properties and classification of soils. Weight-volume relationships. Soil structures. Moisture-density relationships. Capillarity. Permeability. Flow nets and seepage. Neutral and effective stresses. Consolidation theory. Shear strength. Stresses in soil due to external loads. Lateral pressures. Soil exploitation. Load tests. Laboratory tests to illustrate lecture topics.
Lectures: 3 hours per week.
Laboratory: 3 hours per week.
Prerequisites: CIVI C321 and completion of 20 courses.

CIVI C434
Advanced Soil Mechanics (3 credits)

Selected topics in mechanics of soil media including water flow, rheological behaviour and failure theories. Earth pressure theory. Slope stability.
Lectures: 3 hours per week.
Prerequisite: CIVI C431.

CIVI C435
Foundation Design (3.75 credits)

Loads, bearing capacity and settlement. Lateral pressures. Foundation drainage and water-proofing. Spread footings. Strip footings. Pile foundations. Caissons. Retaining walls. Sheet piling walls. Braced cofferdams. Cellular cofferdams. Anchors.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: CIVI C354; C431.

CIVI C451
Advanced Structural Analysis (4 credits)

Analysis of frames, arches and cable structures; influence lines for statically indeterminate structures; plastic analysis; computer applications.
Lectures: 3 hours per week.
Laboratory: 2 hours per week.
Prerequisite: CIVI C354.

CIVI C452
Matrix Analysis of Structures (3 credits)

Classical and matrix methods of structural analysis; influence coefficients, transformation matrices. Matrix formulation of the force and of the displacement methods of analysis. Computer applications.
Lectures: 3 hours per week.
Prerequisites: EMAT C311, CIVI C451, previously or concurrently.

CIVI C453
Advanced Reinforced Concrete Design (3.5 credits)

Design of reinforced concrete slabs, frames, prefabricated structures, girders, and shells; prestressed concrete structures.
Lectures: 2 hours per week.
Laboratory: 3 hours per week.
Prerequisite: CIVI C353.

CIVI C454
Advanced Steel Structures (3.5 credits)

Contemporary methods for analyzing and designing steel structures. Codes. Comprehensive design problems from the fields of steel buildings, bridges of various types, and cable structures.
Lectures: 2 hours per week.
Laboratory: 3 hours per week.
Prerequisite: CIVI C451.

CIVI C471
Highway Design (3 credits)

Design controls and criteria including traffic and highway characteristics and capacity. Location and right-of-way. Earthworks. Geometric design of highways and terminals. Pavement design. Highway design project.
Lectures: 3 hours per week.
Prerequisite: CIVI C372.

CIVI C472
Traffic Engineering (3 credits)

The vehicle, driver, and roadway system, traffic surveys, highway capacity and level of service, statistical distributions of traffic stream measurements, queuing processes, network analysis, surveillance and control concepts.
Lectures: 3 hours per week.
Prerequisite: CIVI C341 and C372.

CIVI C473
Urban Planning (3 credits)

The general planning process. Basic studies: population, economics and land use. Land use planning. Capital improvement programmes and financing. Plan implementation.
Lectures: 3 hours per week.
Prerequisite: CIVI C372.

CIVI C474
Urban Transportation Planning (3 credits)

The systems approach to transportation planning process, supply and demand functions, travel forecasting models, land-use models, urban data collection and analysis, impact on the environment, evaluation of alternative transportation systems, future transportation technology.
Lectures: 3 hours per week.
Prerequisites: CIVI C341 and C372.

CIVI C481
Water Supply Systems (3.75 credits)

Water use cycle; capacity of water supply systems; sources of raw water; development of surface water and ground water; water quantities and requirements; design of distribution systems; storage; pumping; water quality; introduction to water purification practices.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: CIVI C381.

CIVI C482
Urban Sanitation (3.75 credits)

Sources, characteristics and quantities of waste waters; public health considerations; urban hydrology and drainage; design of sewers; introduction to wastewater treatment practices; disposal of wastes, stream pollution and control.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: CIVI C381.

CIVI C483
Hydrology (3.5 credits)

Hydrologic principles, precipitation, data collection and interpretation, floods, ground water hydrology.
Lectures: 2 hours per week.
Laboratory: 3 hours per week.
Prerequisite: CIVI C381.

CIVI C484
Hydraulic Engineering (3.5 credits)

Engineering economy and design of water resources systems; reservoir design and operating rules; flood control; navigation; drainage; irrigation; hydroelectric developments. Other selected topics.
Lectures: 2 hours per week.
Laboratory: 3 hours per week.
Prerequisite: CIVI C381.

CIVI C485
Hydraulic Structures (3.5 credits)

Hydrological principles, selection and design of dams, spillways, outlet works and other hydraulic structures.
Lectures: 2 hours per week.
Laboratory: 3 hours per week.

CIVI C491
Construction Engineering (3 credits)

The nature of construction and the environment in which the industry works; contractor objective; organizational structures for project delivery; rudimentary decision analysis; planning, scheduling and control of men, money, machines, materials and methods to control time cost and content.
Lectures: 3 hours per week.
Prerequisite: Completion of 20 courses in the Civil Engineering programme.

Electrical Engineering

ELEC C251
Fundamentals of Electrical Engineering
(3 credits)

Electric charge, Coulomb's Law, electrostatic forces, electric field, Gauss' Law, electric potential, stored energy. Dielectrics, properties of materials in electric fields. Electric current, conduction in a vacuum and in material media, displacement current, magnetic field of a current, force on a current-carrying wire, magnetic induction, electromotive force, energy stored in a magnetic field. Magnetism in material media, magnetic circuits. Time varying fields. Capacitance, resistance, inductance, elements of electric circuits.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Prerequisites: ENGR C273, EMAT C232 previously or concurrently.

ELEC C311
Electronics I (4.5 credits)

Semiconductor diodes, rectifiers, and wave form-shaping circuits. Zener, varactor and tunnel diodes. Voltage and current amplifiers. Characteristics and operation of field-effect and bipolar transistors. Biasing techniques and thermal runaway. Field-effect and bipolar transistor amplifiers.
Lectures: 3 hours per week.
Laboratory: 3 hours per week.
Prerequisite: ENGR C274.

ELEC C312
Electronics II (4.5 credits)

Multistage transistor amplifiers. Small-signal analysis. Differential and power amplifiers. Operational amplifiers and their applications. High-frequency modeling of transistors. Frequency response of amplifiers. Oscillator circuits.
Lectures: 3 hours per week.
Laboratory: 3 hours per week.
Prerequisites: ELEC C311, ELEC C341.

ELEC C316
Fundamentals of Discrete Structures
(2 credits)

Set algebra; mappings and relations. Algebraic structures: semigroups and groups. Elements of the theory of undirected and directed graphs.
Lectures: 2 hours per week.
Prerequisites: CEGEP Data Processing 911 or equivalent; EMAT C232.

ELEC C321
Electrical Properties of Materials
(3.75 credits)

Structure of crystals. Electrical, magnetic, dielectric and optical characteristics and their measurements. Energy levels, localized states, and transport properties of solids. Recent device applications of metals, semimetals, semiconductors, semi-insulators and insulators.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ELEC C251.

ELEC C331
Electromechanics (4.5 credits)

Three-phase circuits. Power transformers. Energy in singly and doubly excited systems; principles of electromechanical energy conversion. Basic features and models of d.c. machines, 3-phase induction machines, 3-phase synchronous machines.
Lectures: 3 hours per week.
Laboratory: 3 hours per week.
Prerequisites: ELEC C251; ENGR C274 previously or concurrently.

ELEC C333
Electric Machines (3.75 credits)

Air gap field distribution, windings, harmonic content of induced voltages in rotating machines. Magnetic core calculations. Direct current machines, single-phase and three-phase induction motors, three-phase synchronous motors, selsyns, linear motors.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ELEC C331.

ELEC C334
Electric Machinery (3.75 credits)

Three-phase circuits. Magnetic fields, circuits and forces; transformers; basic features of rotating machines; models, characteristics and applications of d.c. machines, polyphase synchronous and induction machines.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ENGR C274. Note: Students in Electrical Engineering may not take this course for credit.

ELEC C341
Linear Network Analysis (3 credits)

The s-plane and system functions. Network topology and equilibrium equations. One and two port networks. Indefinite admittance matrix and applications. Introduction to transmission lines. Response to singularity functions. Transient response of networks and lines.
Lectures: 3 hours per week.
Prerequisites: EMAT C312 previously or concurrently; ENGR C274.

ELEC C351
Electromagnetic Field Theory (3 credits)

The field concept. Maxwell's equations. Boundary conditions. Power and energy. The electrostatic field. Electrostatic potential. The concept of capacitance. Conformal mapping in electrostatics. Polarization. The concept of local field in matter. The magnetostatic field. The Bio-Savart law. The scalar magnetic potential. Plane waves. Total internal reflection. The Brewster angle.
Lectures: 3 hours per week.
Tutorial: 3 hours per week, alternate weeks.
Prerequisites: EMAT C232 and C252, ELEC C251.

ELEC C401
Electrical Engineering Seminar (1 credit)

Near the end of their programme, students in Electrical Engineering hold meetings with faculty members. These meetings are organized to provide the student with an opportunity to exercise his ability to present and to defend his thoughts on topics of his own choice. Students will be encouraged to devote some of their discussions to such topics as continuing professional education, professional societies, organization of engineering employment, and professional ethics.
Seminars: 2 hours per week.
Prerequisite: Completion of 17 courses.

ELEC C411
Pulse Circuits (4.5 credits)

Large signal analysis of diodes and transistors. Wave-shaping circuits. Function generation. Design of gates and their practical limitations. Negative resistance devices in pulse generation.
Lectures: 3 hours per week.
Laboratory: 3 hours per week.
Prerequisites: EMAT C312, ELEC C312.

ELEC C413
Logic Design I (3.75 credits)

Digital design versus analog design. Boolean algebra and its application to electrical switching circuits. Analysis, design and optimization of combinational circuits. Transistor gates and their practical limitations. Modern integrated-circuit logic families such as RTL, DTL, TTL, ECL, MOSL, and CMOSL. Applications of combinational circuits to electronic systems and instrumentation. Flip-flops and their applications.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ELEC C311.

ELEC C414
Logic Design II (3.75 credits)

Characterization, analysis, design, and optimization of clock-mode, pulse-mode, and level-mode sequential circuits. Hazards. Read-only and random access memories. Design of counters and registers. Introduction to MSI and LSI components. Application of sequential circuits to electronic systems and instrumentation.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ELEC C413.

ELEC C415
Electronics III (3.75 credits)

Linear and nonlinear operational amplifier circuits such as stable-gain differential amplifiers, negative-impedance converters, gyrators, logarithmic amplifiers, precision rectifiers, voltage regulators, etc. Analog-to-digital and digital-to-analog converters. Computer-aided analysis of electronic circuits.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ELEC C312.

ELEC C416
Design of Digital Computers (3 credits)

Computer memories, registers and datapath. Register-transfer-level description of digital systems. Design of control and arithmetic units. Inter-system communication, input/output, design of interfaces. Parallelism in computer systems for increased speed of operation. Special computers such as microprocessors.
Lectures: 3 hours per week.
Prerequisites: ELEC C414; ENGR C411.

ELEC C417
Microprocessor Systems (3.75 credits)

Introduction to microprocessor architecture. Instruction set, addressing mode, and programming techniques. I/O systems, memories, and interfacing. Developmental systems. Engineering applications.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: ENGR C411, ELEC C414 previously or concurrently.

ELEC C421
Semiconductor Physics (3.75 credits)

Electrons in periodic lattices. Intrinsic and extrinsic semi-conductors, p-n junctions, diodes and transistors, materials and p-n junction fabrication technology. Measurements of bulk properties.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ELEC C321.

ELEC C422
Analog IC Design (4.5 credits)

Fabrication of analog integrated circuits. Technology processes such as oxidation, photolithography, diffusion, metalization and epitaxy. Derivation of the Ebers-Moll transistor model. Design of integrated-circuit components satisfying prescribed specifications. Design of multi-transistor circuits such as differential and operational amplifiers.
Lectures: 3 hours per week.
Laboratory: 3 hours per week.
Prerequisite: ELEC C421.

ELEC C423
Digital IC Design (3.75 credits)

Properties of metal-oxide-semiconductor (MOS) junctions. Basic MOSFET theory and technology. MOS/LSI design. Design of MOS integrated-circuits such as MOS and CMOS logic circuits, nonvolatile MOS memory cells, and charge-coupled devices.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ELEC C421.

ELEC C431
Electrical Power Systems (3.75 credits)

Inductance, capacitance, resistance of polyphase transmission lines; current and voltage relations of transmission lines; load flow studies; symmetrical and unsymmetrical faults; power system stability.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ELEC C331.

ELEC C433
Static Power Converters (3.75 credits)

Circuits and operating principles of phase-controlled converters; external performance characteristics; harmonic content of d.c. output voltage and a.c. input current; dual converters; converters as power amplifiers. Application to variable speed drives; d.c. machine dynamics, feedback control.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: ENGR C372; ELEC C311 and C331.

ELEC C441
Modern Filter Design (3.75 credits)

Image parameters, constant-k and m-derived filters. The approximation problem. Design of Butterworth, Tchebyscheff, and Bessel filters as terminated lossless networks. Design of constant-resistance all-pass

networks. Design of active-RC filters using operational amplifiers.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ELEC C341.

ELEC C442
Digital Filters (3 credits)

Introduction to recursive and non-recursive digital filters; the z-transform; realization methods; amplitude and phase characteristics and relevant approximations and transformations; comparison of digital with conventional filters; application of digital filters.
Lectures: 3 hours per week.
Prerequisite: ELEC C341.

ELEC C453
Microwaves and Optics I (3.75 credits)

Uniform and nonuniform plane waves, surface waves, surface impedance. Impedance transformation, matching, Smith chart. Waveguide modes, cutoff frequency, dispersion, losses. Dielectric optical waveguides, surface waveguides, microstrip. Principles of light transmission optics. Basic antenna theory, linear dipole, aperture antennas, diffraction, linear arrays.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: EMAT C312, ELEC C341 and C351.

ELEC C454
Microwaves and Optics II (3.75 credits)

Circuit theory for waveguiding systems, waveguide discontinuities. Binomial and Chebyshev impedance transformer design. Electromagnetic resonators, the Fabry-Perot resonator. Periodic structures, microwave filters. Faraday rotation and ferrite devices. E.M. wave propagation in optically active media, electro-optic devices. Principles of microwave tubes.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ELEC C453.

ELEC C455
Acoustics (3 credits)

Sound generation and propagation in elastic media; conversion between acoustical, electrical, and mechanical energy. Lumped-parameter approximations, sound in rooms, underwater acoustics, microphones; loudspeakers and audio communications problems; noise and vibration control problems.
Lectures: 3 hours per week.
Prerequisite: ELEC C351.

ELEC C461
Communication Circuits and Systems (3.75 credits)

Principles of amplitude, frequency and phase modulation. Modulators, mixers, and demodulators. Representative examples of complete transmission systems. Qualitative treatment of modulation systems in the presence of noise.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: EMAT C312; ELEC C312.

ELEC C462
Statistical and Digital Communications (3.75 credits)

Transmission and filtering of random signals, analysis of modulation systems, in particular Pulse Code Modulation, Phase Shift Keying, Frequency Shift Keying, etc., and introduction to noise analysis, information theory and coding.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: EMAT C271; ELEC C461.

ELEC C481
Electrical Engineering Project (4 credits)

The Electrical Engineering project provides an opportunity for each student to carry out a design project associated with one or more of the specialist elective courses, under the supervision of a faculty member. The nature of the project selected should be such as to require independent study of current technical literature. When feasible the designs will be assessed in the laboratory. Each student is to present a complete report at the end of the project.
Equivalent laboratory time: 6 hours per week.
Prerequisite: Registration in final year.

ELEC C482
Topics in Electrical Engineering (3 credits)

This course may be offered in a given year upon the authorization of the Electrical Engineering Department. The course content may vary from offering to offering and will be chosen to complement the elective courses available in a given option or options.
Lectures: 3 hours per week.
Prerequisite: Permission of the Department.

Mechanical Engineering

MECH C311
Mechanical Engineering Laboratory I (3 credits)

Fundamentals of manufacturing processes and their limitations, metrology, machine shop practice, forming, machining and casting processes, welding and joining, plastic production and non-conventional machining techniques. Laboratory includes use of basic machines, preparation of shop drawings with emphasis on production and field trips to local industries.
Lectures: 2 hours per week.
Tutorial: 1 hour per week.
Laboratory: 2 hours per week.
Prerequisite: MECH C312 previously or concurrently.

MECH C312
Mechanical Engineering Design I (3 credits)

Introduction to engineering design procedures through the use of open-ended design projects. Lecture topics will include engineering design process, consideration of alternatives, specifications, pencil thinking, principle of design synthesis, dimensioning for manufacture and interchangeability, quality control, presentation of engineering data and

calculations; application of computer graphics in design.
Lectures: 2 hours per week.
Laboratory: 2 hours per week.
Prerequisites: ENGR C214; COMP C211 or equivalent.

MECH C321
Strength and Failure in Metals (3 credits)

The service capabilities of alloys and their relationship to microstructure as produced by thermal and mechanical treatments; material codes; material selection for design; strengthening mechanisms, composite materials. Modes of failure of materials; fracture, fatigue, wear, creep, corrosion, radiation damage.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Prerequisite: ENGR C221.

MECH C341
Kinematics of Mechanisms (2.5 credits)

Geometry of motion and mobility criteria; kinematic analysis and synthesis of linkages; theory of spur gears, helical, worm and bevel gearing; gear trains and differentials; cam kinematics.
Lectures: 2 hours per week.
Laboratory: 2 hours per week, alternate weeks.
Tutorial: 2 hours per week, alternate weeks.
Prerequisite: EMAT C232; ENGR C243.

MECH C342
Dynamics of Machines (2.5 credits)

Kinematic analysis of space mechanisms; static and dynamic analysis of planar mechanisms and gear trains; dynamic analysis of space mechanisms; gyroscopic forces; balancing of rating and reciprocating machinery.
Lectures: 2 hours per week.
Laboratory: 2 hours per week, alternate weeks.
Tutorial: 2 hours per week, alternate weeks.
Prerequisite: MECH C341.

MECH C351
Thermodynamics II (3.75 credits)

Thermodynamic functions and equation, relationships between properties; behaviour of gases and their nonreactive mixtures; combustion. Applications of thermodynamics to power production and utilization systems.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Tutorial: 1 hour per week.
Prerequisite: ENGR C251.

MECH C352
Heat Transfer I (3.75 credits)

Steady state and transient heat conduction, numerical methods for two-dimensional steady state heat conduction. Radiation heat exchange between black bodies, between grey bodies and from gases, vapours and flames.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: EMAT C311.

MECH C373
Instrumentation and Measurements
(3.75 credits)

Unified treatment of measurement of physical quantities. Principle, characteristics, design and calibration of components and systems for measuring postion, velocity, acceleration, force pressure, flowrate, temperature, proximity detection, etc. Background knowledge of electronics covering signal generation and processing. Concepts of accuracy and repeatability, linearity, response criteria, bandwidth, input and output impendance, matching of measuring systems, drift and bias.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ENGR C274.

MECH C411
Mechanical Engineering Laboratory II
(3 credits)

Analytical review of current design practices and specification of standard components encountered in mechanical engineering. Introduction to overall system reliability estimates, interchangeability of mechanical devices and influence of stress-strength in determining the actual configuration of mechanical elements. Standard components covered include: various types of mechanical drives, cams, clutches, couplings, brakes, seals, fasteners, springs and bearings.
Lectures: 2 hours per week.
Laboratory: 2 hours per week.
Tutorial: 1 hour per week.
Prerequisite: MECH C311.

MECH C421
Deformation and Mechanical Shaping of Metals (3.75 credits)

The mechanisms of deformation and softening and the effects of processing variables on the mechanical properties of metals: cold working, annealing and hot working of metals. The effects of mechanical parameters and materials properties on the processing and on the product. Mechanical forming: shear line theory, extruding, forging, rolling, drawing. Metal cutting: machineability, metrology. Powder technology. Shaping of plastics; extrusion, molding, vacuum, forming, lamination.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ENGR C221.

MECH C423
Thermal Treatment and Processing of Metals (4 credits)

Science and technology of thermal treatments for controlling the internal structure and the external shape of metals. Equilibrium phase diagrams. Kinetics of phase transformations, diffusion. Thermomechanical treatments of steel. Precipitation hardening. Solidification. Casting. Welding. Non-destructive testing. Finishing processes.
Lectures: 3 hours per week.
Laboratory: 2 hours per week.
Tutorial: 1 hour per week.
Prerequisite: ENGR C221.

MECH C441
Mechanical Engineering Design II
(3 credits)

Concepts in design; failure of mechanical elements under dynamic loading; shafting; bolted and welded joints; anti-friction and journal bearings; design of gears.
Lectures: 2 hours per week.
Laboratory: 2 hours per week.
Prerequisites: ENGR C244; MECH C312 and C342.

MECH C443
Mechanical Vibrations (3.75 credits)

Transient vibrations under impulsive shock, and arbitrary excitation: normal modes, free and forced vibration. Multi-degree of freedom systems, influence coefficients, orthogonality principle, numerical methods. Continuous systems; longitudinal torsional and flexural free and forced vibrations of prismatic bars. Lagrange's equations. Vibration measurements.
Lectures: 3 hours per week.
Tutorial: 1 hour per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: EMAT C311; ENGR C274; MECH C342.

MECH C445
Machine Design (3.5 credits)

Design of springs; design of gear and hydraulic drives, design for hydrodynamics and hydrostatic lubrication; optimum design of mechanical systems, design strategy, value and merit function, maximizing and minimizing procedures. Laboratory work includes an advanced design project representative of those encountered in industry.
Lectures: 2 hours per week.
Laboratory: 3 hours per week.
Prerequisite: MECH C441.

MECH C452
Heat Transfer II (3.75 credits)

Review of momentum transfer, free and forced convection heat transfer, dimensional analysis as applied to convection heat transfer configurations, heat exchangers, introduction to mass transfer.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisite: ENGR C362; MECH C352.

MECH C453
Environmental Control (3 credits)

The effect of air temperature and humidity on physiological comfort, overall heat-transmission coefficients across building sections, heating load calculations, the effect of solar radiation on air-conditioning load, cooling load calculations, heating, air-conditioning and ventilating systems, design of piping and duct arrangement.
Lectures: 3 hours per week.
Prerequisite: MECH C352.

MECH C455
Introduction to Nuclear Engineering
(3 credits)

Nuclear engineering principles. Nuclear reactions and reactors; control, heat removal and safety. Processing and properties of reactor fuels, moderators and coolants. Types of power reactors; radiation safety and protection.
Lectures: 3 hours per week.
Prerequisites: MECH C351 and C352.

MECH C461
Gas Dynamics (3.75 credits)

Review of one-dimensional compressible flow. Normal and oblique shock waves; Prandtl-Meyer flow; combined effects in one-dimensional flow; non-ideal gas effects; multi-dimensional flow; linearized flow; method of characteristics. Selected experiments in supersonic flow, convergent-divergent nozzles, hydraulic analogue and Fanno tube.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: ENGR C362; MECH C351.

MECH C462
Fluid Machinery (3 credits)

Momentum analysis for fluid propulsion, moment-of-momentum and Euler turbine equations, thermodynamics of gas flow, analysis of blades and impellers, performance of incompressible and compressible turbo-machinery.
Lectures: 3 hours per week.
Prerequisites: ENGR C362; MECH C351.

MECH C463
Fluid Power Control (3.75 credits)

Introduction to Fluid Power; pneumatic devices; fluidic devices; hydraulic system components; hydraulic and electro-hydraulic systems; dynamic performance of fluid power systems; fluid logic.
Lectures: 3 hours per week.
Laboratory: 3 hours per week, alternate weeks.
Prerequisites: ENGR C361 and C372.

MECH C471
Microprocessors and Applications
(3 credits)

Introduction to the concepts and practices of using microprocessors and micro-computers in such applications as instrumentation, manufacturing, control and automation; architecture and programming techniques; design of interface logic circuits: I/O systems; case studies of engineering applications.
Lectures: 3 hours per week.
Prerequisite: ENGR C411.

MECH C481
Design of Experimental Project (3 credits)

A mechanical engineering design, simulation or experimental project appropriate to the senior level carried out under the supervision of a faculty member. A complete report is required at the end of the project.
Equivalent laboratory time: 6 hours per week.
Prerequisite: Registration in final year.

71.8 Department of Computer Science

Professor of Computer Science, and Acting Chairman of the Department
J. MCKAY

Professor
C. Y. SUEN

Associate Professors
V. S. ALAGAR
J. W. ATWOOD
T. D. BUI
W. M. JAWORSKI
S. L. KLASA
C. LAM
G. MARTIN
K. MENON
T. RADHAKRISHNAN

Assistant Professors
B. C. DESAI
E. J. DOEDEL
T. FANCOTT
I. GREENSHIELDS
J. JUERGENS
J. OPATRNY
D. K. PROBST
E. REGENER

Lecturers
W. G. PROBST
G. WEISS

Visiting Associate Professor
S. SELKOW

Visiting Assistant Professor
V. VAISHNAVI

71.8.1 BACHELOR OF COMPUTER SCIENCE PROGRAMME

A new Concordia University Computer Science Department, with a revised set of course offerings, has replaced the old SGW and Loyola Departments of Computer Science. The Commerce component of the former Loyola Computer Science offerings has been transferred to the Faculty of Commerce and Administration. The re-structuring of courses is clearly indicated in the Equivalents Index Section 200.6.

71.8.2 CURRICULUM FOR THE DEGREE OF BACHELOR OF COMPUTER SCIENCE

The University offers a programme leading to the degree of Bachelor of Computer Science with four Options, namely General Science, Digital Systems, General Business and Mathematics. To be recommended for the degree of Bachelor of Computer Science, students must satisfactorily complete an approved programme of at least 90 credits, comprising 42 credits of the core requirements and at least 48 credits as specified for one of the four options.

71.8.3 COMPUTER SCIENCE CORE

30 COMP C221[3], C231[3], C241[3], C251[3], C322[3], C352[3], C443[3] C453[3], C491[6]
3 COMP C361[3] or EMAT C391[3] or MATH C311[3]
9 From Computer Science courses at or above the 300 level, of which not more than 3 credits may be chosen from COMP C311, C321, C341, C351, and C421.

1. General Science Option

42 Computer Science Core
18 MATH C241[6], C261[6], and C281[6].
3 Elective credits in Computer Science at the 300 level or above.
21 Elective credits chosen from
a) those offerings of the Faculty of Arts and Science which are creditable towards a 90 credit/B.Sc. programme.
b) those offerings of the Faculty of Commerce and Administration which are creditable towards a 90 credit B.Com. or B.Admin. degree.
c) those offerings of the Faculty of Engineering other than COMP C211.
d) other courses as authorized by the Assistant Dean, Undergraduate Student Affairs, in consultation with the Department.
6 Elective credits.

2. Digital Systems Option

42 Computer Science Core
33 EMAT C212[3], C232[3], C252[3], C271[3], C312[3],
ENGR C273[3.75], C274[3.75]
ELEC C311[4.50]
COMP C325[3], C426[3]
12 Chosen from ENGR C372[3.75], C471[4], C474[3.75],
ELEC C312[4.50], C341[3], C411[4.50], C441[3.75], C442[3], C461[3.75], C462[3.75]
COMP C323[3], C342[3], C475[3]
6 Elective credits from any department.

3. General Business Option

42 Computer Science Core
6 Accountancy C213; C218
6 Economics C201; C203
3 Finance C314
3 Management C266
3 Marketing C213
9 Quantitative Methods C243; C244; C313
9 Elective credits from Commerce and Administration*
9 Elective credits from any department.

**Students would normally register for FINA C315, MANA C213 or C340, and MARK C350. Students exempt from MANA C213 would normally substitute MANA C340.*

4. Mathematics Option

42 Computer Science Core
18 Math C241[6], C261[6], C281[6]
3 Elective credits in Computer Science at the 300 level or above
9 credits in mathematics chosen from one of the lists below
6 credits in mathematics, chosen from courses at the 300 level or above
6 elective credits chosen from
a) those offerings of the Faculty of Arts and Science which are creditable towards a 90 credit B.Sc. programme.
b) those offerings of the Faculty of Commerce and Administration which are creditable towards a 90 credit B.Com. or B.Admin. degree.
c) those offerings of the Faculty of Engineering other than COMP C211.
d) other courses as authorized by the Assistant Dean, Undergraduate Student Affairs, in consultation with the Department.
6 elective credits

List 1 Discrete Mathematics: MATH C322, C381, C392, C393, C394, C432, C491, C492.
List 2 Numerical Methods and Operations Research: MATH C312, C331, C381, C431, C432, C434, C435.
List 3 Probability and Statistics: MATH C342, C343, C344[6], C345[6], C351, C353, C451

71.8.4 HONOURS PROGRAMME

Students should refer to Sections 16.2.4 and 16.2.5 of the calendar for academic regulations for the Honours Programme. In addition the following regulations apply to the B. Comp. Sc. programme.

1. Students who are required to withdraw from the honours programme must enter the General Science Option.
2. Students entering the honours programme from the General Science option of the B. Comp. Sc. must complete a minimum of 30 credits towards the degree after having been accepted as honours students. Other students entering the programme with advanced standing must complete a minimum of 30 credits of the basic honours requirements after having been accepted as honours students.
3. Students in the honours programme are required to confirm their standing with the Computer Science Department by November 15 of each year.

Requirements for Honours

Basic Requirements

Year 1

12 Comp C221, C231, C241, C251
18 MATH C241, C261, C281

Year II and III

18 COMP C322, C352, C443, C453, C491
3 chosen from COMP C361, MATH C311
6 MATH C271, C351
3 chosen from COMP C323, C325
3 chosen from COMP C436, C465
3 chosen from COMP C342, C441, C445
3 chosen from COMP C455, C456
3 chosen from COMP C426, C471, C475
6 chosen from MATH C331, C342, C343, C344[6], C345[6], C434.

Courses outside the basic requirements:

6 Elective credits chosen from
a) those offerings of the Faculty of Arts and Science which are creditable towards a 90 credit B.Sc. programme.
b) those offerings of the Faculty of Commerce and Administration which are creditable towards a 90 credit B.Com. or B.Admin. degree.
c) those offerings of the Faculty of Engineering other than COMP C211.
d) other courses as authorized by the Assistant Dean, Undergraduate Student Affairs, in consultation with the Department.
6 Elective credits

71.8.5 MINOR IN COMPUTER SCIENCE

This programme is offered on both campuses.

Minor in Computer Science

12 COMP C211, C221 or C321, C231, C241 or C311
12 Computer Science electives.

71.8.6 PROGRAMMES IN DATA PROCESSING

Both major and minor programmes in Data Processing can be found in the Commerce and Administration section of the undergraduate calendar, Section 61.

71.8.7 DISCONTINUED PROGRAMMES

For requirements for the following programmes, see the 1978/79 undergraduate calendar.

Bac. Spec. (Math and Comp. Sc.)
Bac. Spec. (Comp. Sc.)
B.Sc. Major in Computer Science
Minor in Scientific Computing (Loyola Campus)
Minor in Computer Science (SGW Campus)

71.8.8 COURSE DESCRIPTIONS

Please note that the former offerings of the SGW and the Loyola departments of Computer Science have merged into a single set of offerings of the Concordia Department of Computer Science. For equivalent course numbers please consult section 200.6. Students who have taken a given course under an old number may not repeat it for credit under an equivalent number.

COMP C211
Introduction to Computers and Computing (3 credits)

An introduction to the essential features of computers and computing systems. Problem analysis, algorithms and flowcharts. Detailed specifications of the FORTRAN language. This course will include programming assignments, to be prepared, tested, and documented individually.
Lectures: 3 hours per week.
Tutorial: 1½ hours per week.

COMP C217
Computers in Society (3 credits)

An introductory course for Arts students with no previous experience of computers. It covers the history of computers, the component parts of a computer, how human beings and computers pass information to each other, and what computers can (and cannot) be used for in the fields of education, research, business, medicine, art, government and the humanities. The effect of computers on society and the individual. Available as an elective for all students, but may not be taken for additional credit by students who already have credit for COMP C211, QUAN C211 or C217.
Lectures: 3 hours per week.
Tutorial: 1½ hours per week.

COMP C221
Introduction to Assembly Language Programming (3 credits)

Computer structure, machine language, instruction execution, addressing techniques and digital representation of data, symbolic coding and assembly systems; macro definition and generation. Programme segmentation and linkage; loading. Systems and utility programmes; programming techniques. Introduction to the facilities provided by operating systems.
Lectures: 3 hours per week.
Tutorial: 1½ hours per week.
Prerequisite: CEGEP Data Processing 911, or equivalent.

COMP C231
Introduction to Discrete Structures (3 credits)

Introduction to a high level programming language and fundamental algebraic, logical and combinatoric concepts such as: Set algebra; mappings and relations. Algebraic structures; semi-groups and groups. Elements of the theory of directed and undirected graphs. Boolean algebra and propositional logic. Applications of these structures to various areas of computer science.
Lectures: 3 hours per week.
Tutorial: 3 hours per week.
Prerequisites: CEGEP Data Processing 911, or equivalent, previously or concurrently.

COMP C241
Computer Languages and Programming (3 credits)

Precision programming by use of structured programming techniques. Definitions and specifications of syntax and semantics of programming languages. Use of high-level languages with examples chosen from discrete structures.
Lectures: 3 hours per week.
Tutorial: 1½ hours per week.
Prerequisites: CEGEP Data Processing 911, or equivalent; CEGEP Math 203; COMP C231 or ELEC C316.

COMP C251
Introduction to Business Programming (3 credits)

Introduction to business data processing. Basic file organization and handling, record layouts, elementary information storage and retrieval. Detailed specifications of the Common Business Oriented Language (COBOL). Structured programming concepts will be emphasized. This course will include programming assignments involving basic business applications, to be prepared, tested and documented individually.
Lectures: 3 hours per week.
Tutorial: 1½ hours per week.
Prerequisites: COMP C211 or QUAN C223 or CEGEP Data Processing 911, or equivalent.

COMP C311
Advanced FORTRAN Programming (3 credits)

Discussion of concepts in advanced FORTRAN programming, using examples from numerical analysis. Topics to be covered will include: double precision, complex, and Boolean arithmetic, character-string manipulation; object time FORMAT; use of mass storage devices; file handling; use of software packages such as IMSLIB, SSP; introduction to structured programming and structured FORTRAN.
Lectures: 3 hours per week.
Prerequisite: COMP C211.

COMP C321
Assembler Language Programming I (3 credits)

Review of the basic concept of IBM 360/370 architecture and instruction repertoire. Memory access and storage. Detailed flowcharting of problems. Rules for coding assembler language programmes, including use of base registers, programme linking and sectioning and the use of macro instruction. Documentation, debugging and testing of programmes. Students will write and run several programmes on an IBM 360/75 computer.
Lectures: 3 hours per week.
Prerequisite: COMP C251 or C311.

COMP C322
Computer Organization (3 credits)

Organization, logic design and components of a digital computer. Basic digital circuits. Data representation and transfer. Digital Arithmetic. Digital storage and accessing. The arithmetic logic unit, control section and timing. Input-output devices and channels. System organization.
Lectures: 3 hours per week.
Tutorial: 1½ hours per week.
Prerequisites: COMP C221 or C321, C311 or C241, or equivalent.

COMP C323
Mini-Computer Systems (3 credits)

Hardware and software structures relating to mini-computers. Processor architecture, input-output architecture, and operating system components. The laboratory provides hands-on access to mini-computer systems using machine and assembly language programming.
Lectures: 3 hours per week.
Laboratory: 2 hours per week.
Prerequisites: COMP C322, or permission of the Department.

COMP C325
Logical Design and Switching Theory (3 credits)

Review of binary arithmetic and Boolean algebra as applied to logic design. Combinational logic design techniques, sequential circuit design and analysis. Circuit Design using SSI and MSI elements. Introduction to digital systems.
Laboratory: 2 hours per week.
Prerequisites: CEGEP Data Processing 911, or equivalent, and COMP C231, or permission of the Department.

COMP C341
PL/1 Programming (3 credits)

Study of the basic rules and important features of the PL/1 language. This will be integrated with the solution of a variety of practical computer programming problems, both scientific and commercial.
Lectures: 3 hours per week.
Prerequisites: COMP C241 or C251 or C311.

COMP C342
Programming Languages and Compiler Theory (3 credits)

Review of assembler and macro instructions. Symbol tables and storage allocation. Problem oriented languages. List processing and string manipulation languages. Structure of algorithmic languages. Compiler organization; statement identification and decomposition, syntax analysis, code generation, runtime routines, error diagnostics, code optimization. Compiler writing languages.
Lectures: 3 hours per week.
Prerequisites: COMP C221 and C241.

COMP C351
Advanced Cobol Programming (3 credits)

Review of basic COBOL programming principles and techniques. Interfacing with the operating system; job control language. Advanced topics to be covered include: sorting, table handling, indexing and searching; report writing; direct access file handling and updating; subprograms; declaratives; source libraries; segmentation; design and structured programming will be emphasized. This course will include programming assignments.
Lectures: 3 hours per week.
Prerequisite: COMP C251

COMP C352
Data Structures (3 credits)

A detailed study of the basic data structures commonly used in data processing; techniques for data manipulation in structures such as stacks, queues, linked lists and trees; the management of memory space and overflow; internal sorting, external sorting and hash table methods. Emphasis will be on the design, implementation and evaluation of the various methods and the best choices of data structures for different applications.
Lectures: 3 hours per week.
Tutorial: 1½ hours per week.
Prerequisites: COMP C241 and C251, or permission of the Department.

COMP C361
Elementary Numerical Methods (3 credits)

Introduction to numerical algorithms fundamental to scientific computer applications. Errors; interpolation and curve fitting, solution of polynomials and non-linear equations; numerical integration; Matrix and solution of systems of linear equations; Numerical solution of ordinary differential equations; Linear programming and simplex method. Emphasis on the algorithmic approach; efficiency.
Lectures: 3 hours per week.
Tutorial: 1½ hours per week.
Prerequisites: CEGEP MATH 105 or equivalent; COMP C311 or C241.

COMP C362
Computer Applications of Statistics (3 credits)

This course is designed to familiarize the student with the application of computers to statistical problems. Computer terminals and batch processing of Fortran programs are used to develop a working knowledge of standard programs for control charts, analysis of experimental design, sampling plans, forecasting, and statistical analysis common to many other fields. Students are expected to be familiar with elementary statistics and to be able to program in Fortran.
Lectures: 3 hours per week.
Prerequisites: COMP C211 and one statistics course.

COMP C372
Teleprocessing (3 credits)

The study of remote control of computers by human operators or by other computers. The following topics will be covered: the categories of data transmission systems, channel capacities, communication line characteristics, modems, coding systems, transmission modes, transmission errors, various types of dialogue between man and computer, networks, terminals and control units, programmes and software.
Lectures: 3 hours per week.
Prerequisites: QUAN C233 or COMP C221.

COMP C421
Assembler Language Programming II (3 credits)

Continuation of Computer Science C321. Further exercise in assembler language programming for the IBM 360/370. A study of assembler languages for other computers, including UNIVAC 9300 and the DEC PDP-11.
Lectures: 3 hours per week.
Prerequisites: COMP C321 or permission of the Department.

COMP C426
Digital System Design (3 credits)

Microprocessor architectures and assembly languages. Standard LSI system components. Interface design using MSI and LSI. Microcomputer system architecture Microcomputer peripheral devices and func-

tions. Interface control programming.
Lectures: 3 hours per week
Laboratory: 2 hours per week
Prerequisites: COMP C322 and C325, or permission of the department.

COMP C435
Formal Languages and Syntactic Analysis (3 credits)

Definition of formal grammars: arithmetic expressions and precedence grammars; context-free and finite-state grammars. Algorithms for syntactic analysis; recognizers, backtracking and operator precedence techniques. Semantics of grammatical constructs. Simple syntactical compilation. Relationship between formal languages and automata.
Lectures: 3 hours per week.
Prerequisite: COMP C352.

COMP C436
Introduction to the Theory of Automata (3 credits)

Description of finite state automata and machines, state transition diagrams and matrices. Regular expressions, Kleen's theorem, congruence and reduction. Chomsky hierarchy and its relation to machines. Computability, Church's thesis, and Turing machines. Sequential and other types of machines. Relationships to corresponding grammars.
Lectures: 3 hours per week.
Prerequisite: COMP C241.

COMP C441
Advanced Programming Languages (3 credits)

Concepts of, comparison of, and practice in several of the following programming languages: ALGOL, LISP, PL/1, SIMULA67, and SNOBOL.
Lectures: 3 hours per week.
Prerequisite: COMP C352.

COMP C443
Computer Operating Systems (3 credits)

Software organization. Translating, linking, loading and executing. Control programs for batch processing, time-sharing and real-time applications. Accounting. Communication between program units. Multiprogramming and multiprocessing systems. Addressing techniques, paging and memory management. Control of parallel input-output processing, buffers and interrupt facilities. File systems. Protection. Detailed analysis of a small operating system.
Lectures: 3 hours per week.
Prerequisites: COMP C241 and C322.

COMP C445
Heuristic Programming (3 credits)

The definition of heuristic vs. algorithmic methods; rational heuristic approach; nonnumeric symbolic programming; self-organizing systems; heuristic pro-techniques including a list of the uses of list processing languages; survey of examples from representative application areas including artificial intelligence, and other advanced computer application areas.
Lectures: 3 hours per week.
Prerequisite: COMP C352.

COMP C453
File and Data Bases (3 credits)

This course is a continuation of C352 covering file structures and data bases. Random, index sequential, inverted, and multilist file structures; concept of data models, data language, data security and data integrity. The organization, storage, search and retrieval methods of Hierarchical, Network and Relational data models will be discussed.
Lectures: 3 hours per week.
Prerequisite: COMP C352.

COMP C455
Principles of Data Processing (3 credits)

Study of techniques used in data processing applications. Preparation and handling of data, file organization and design, storage device characteristics, programming techniques, documentation, interpretation and validity of results. Examples of business systems. Introduction to systems analysis. This course will include the analysis, design and implementation of a computer-oriented business system.
Lectures: 3 hours per week.
Prerequisite: COMP C251.

COMP C456
Information Retrieval (3 credits)

The basic problems of information retrieval. Document and library data bases. Question logic and processing considerations. Structure of search programmes for batched questions with sequential and inverted files. Practical considerations in system design. Measures of retrieval effectiveness.
Lectures: 3 hours per week.
Prerequisites: COMP C352 or equivalent.

COMP C465
Analysis of Algorithms (3 credits)

Empirical and theoretical measures of the efficiency of algorithms. A study of good algorithms related to sorting, matrix multiplication, fast Fourier transform, integer and polynomial arithmetic, and graph theory. A survey of hard problem, NP-completeness, and interactable problems.
Lectures: 3 hours per week.
Prerequisites: COMP C352 and C361, or permission of the Department.

COMP C471
Computer Graphics (3 credits)

Display memory; generation of points, vectors, etc. Interactive versus passive graphics; CRT devices and plotters, analog storage of images. Digitizing and digital storage. Pattern recognition. Data structures and graphics software. The mathematics of three-dimensional transformations; projections. Applications in computer-aided design and instruction.
Lectures: 3 hours per week.
Laboratory: 1½ hours per week.
Prerequisites: COMP C352 and C443.

COMP C475
Discrete System Simulation (3 credits)

Discrete random variables and their distributions. A comparison of simulation techniques: discrete, continuous and hybrid. Queueing models, analysis of data. Model building. Review of simulation languages. Application to business problems and operations research.
Lectures: 3 hours per week.
Prerequisites: COMP C241; MATH C241 or QUAN C244 or EMAT C271.

COMP C490
Computer Science Seminar and Project (3 credits)

Individual work on a computer science project under the supervision of a faculty member, and a series of seminars dealing with topics of current interest by faculty members, students and industry representatives. At least 60 hours of work must be done on a project approved in advance, including the submission of a technical report. Special arrangements can be made with the Department to accept a project carried out by a student employed in a commercial firm.
Note: Students who have credit for COMP C491 may not take this course for credit.
Note: This course is offered on the Loyola Campus only.

COMP C491
Computer Science Project (6 credits)

The students will work on a major project under the direction of a faculty member, and submit a suitable written report on the work carried out. Students planning to register for this course should consult with the department in the fall term preceding entry into the final term of study.
Prerequisite: Permission of the Department.

71.9 Certificate Programme in Quality Control

The programme leading to the Certificate in Quality Control is offered at the Loyola campus, in the evening only.

71.9.1 ADMISSION REQUIREMENTS

Applications for admission to the certificate programme in Quality Control are submitted to the Admissions Office at the Loyola Campus.

General Admission requirements are listed in §13.

Special requirements are a Diploma of Collegial Studies, or its equivalent, including the CEGEP courses Math 101, 103, 105 and 203, or their equivalents.

71.9.2 CURRICULUM FOR THE CERTIFICATE IN QUALITY CONTROL

To be recommended for the award of the Certificate in Quality Control, students must satisfactorily complete the programme of 48 credits specified below. Of the total credits required, 36 pertain directly to quality control, while the remainder are from computer science, mathematics and other allied areas. The courses offered in the programme will provide the student with an in-depth understanding and working knowledge of the principles and practices used in the rapidly expanding field of quality control.

The programme is fully endorsed by the Montreal Section of the American Society for Quality Control (ASQC). It has been designed in keeping with the requirements stipulated by the Education Institute of the ASQC headquarters and, as such, does much to prepare candidates for the ASQC Quality Engineer Certificate examinations. It should be noted, however, that the certificate programme does not lead to admission to the Order of Engineers of Quebec, or to the legal use of the title Engineer.

71.9.3 ACADEMIC REGULATIONS

Students are subject to the academic regulations of the University.

71.9.4 COURSE REQUIREMENTS

To be recommended for the award of the Certificate, students must satisfactorily complete the following courses:

QUAL C200	Elementary Metrology
QUAL C201	Advanced Metrology
QUAL C202	Statistical Quality Control
QUAL C203	Statistical Sampling
QUAL C204	Basic Concepts of Reliability
QUAL C205	Reliability Engineering
QUAL C206	Quality Management
QUAL C207	Design of Experiments
QUAL C208	Quality Assurance Technology
QUAL C209*	Accounting for Quality Control
COMP C211	Introduction to Computers and Computing
COMP C362	Computer Applications of Statistics

3 elective credits from Computer Science or Quantitative Methods

* *Students admitted before 01 June 1980 may replace this course with QUAN C221.*

Course descriptions are given below, except for those with the prefixes QUAN or COMP, which may be found in the Commerce and Administration and Computer Science sections of the calendar.

71.9.5 COURSE DESCRIPTIONS

Please note that new course numbers have been implemented. For equivalent course numbers under the old system, please consult §200.6.

QUAL C200
Elementary Metrology (3 credits)

An introductory course dealing with general measurement concepts, methods for estimating accuracy, systematic and constant errors.

Included are: mathematical bases of metrology, statistical analysis of measurement data, the role of standards, legal bases, systems of measurement, master standards, principles involved in the use of projectors, pneumatic comparators, and direct reading measuring machines.

QUAL C201
Advanced Metrology (3 credits)

This course applies the principles presented in Elementary Metrology, and explores the value of these principles through everyday applications to modern technology.

Special consideration is given to the 'Système Internationale' (Modernized Metric System) and its influence on industry (including the use of conversion tables and formulae).

The course treats non-destructive testing techniques and their applications, including (in some depth) radiographic, ultrasonic and nucleonic gauging and measurement.
Prerequisite: QUAL C200.

QUAL C202
Statistical Quality Control (3 credits)

Techniques for establishing, monitoring and maintaining process control of manufactured products. A workshop course with full

student participation in solving a variety of practical statistical quality control problems. Discussed are the concept of variation, frequency distributions, functions of a frequency distribution, the various types of control charts including those for attributes and variables data, analysis of patterns, process capability studies and other related topics.

QUAL C203
Statistical Sampling (6 credits)

Statistical sampling theory and its application to quality control. Also discussed in lecture workshop/sessions are risks for producer and consumer.

Topics include elements of probability theory; the binomial; Poisson, and hyper-geometric distribution; sampling theory; sampling plans, classification of sampling plans — AQL, AOQL and LTPD, types of sampling plans within each classification, such as single, double, multiple, unit sequential, and continuous plans and their associated operating characteristic curves. MIL-STD-105D and MIL-STD-414 are discussed in detail and the Dodge and Romig tables are highlighted.
Prerequisite: QUAL C202.

QUAL C204
Basic Concepts of Reliability (3 credits)

A mixed format of lectures, workshops, problems and discussions designed to familiarize the student with the basic principles of reliability. Building gradually from historical review, definitions and concepts, the course discusses probability theory, Poisson and exponential distributions, reliability equation, MTBF and failure rate concepts, Weibull analysis, mean and median ranks, confidence statements, life characteristic curves, system reliabilities, standby systems, associated problems and other related topics.
Prerequisite: QUAL C202.

QUAL C205
Reliability Engineering (3 credits)

Statistical methods in life testing. Introduction, reliability concepts and definitions, historical review and development. Life characteristic curve, Poisson and exponential distributions, exponential reliability equation, MTBF and failure rate concepts.

Chi square confidence statements and intervals, Weibull analysis, mean and median ranks, associated problems. Probability theory, system reliabilities, standby systems, and other related topics.
Prerequisite: QUAL C201.

QUAL C206
Quality Management (3 credits)

Emphasis is on general principles of planning and management rather than quality control methodology. The concept of total quality control, from design, development and manufacture to customer use, is developed.

The economics of quality, the planning and implementation of a quality cost programme, organization for quality, procurement quality control, in-process control, motivation for quality, value engineering, system quality audit, customer feedback and product liability are topics treated in detail.

QUAL C207
Design of Experiments (6 credits)

An introductory course, providing a more systematic approach to experimentation with emphasis on the use of statistical designs for data interpretation and known confidence in the result and overall costs.

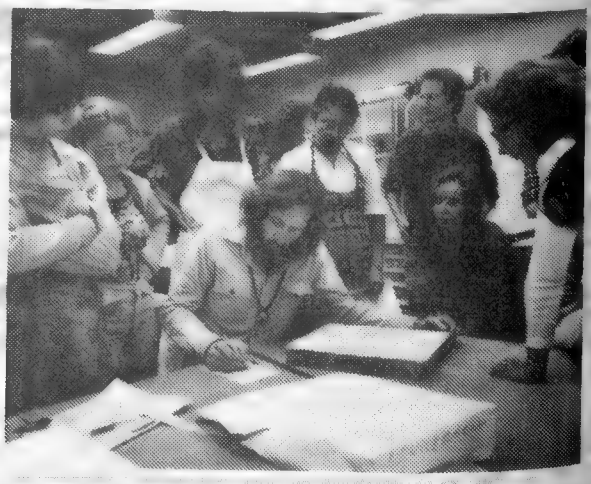
The course covers: tests of hypotheses, F, t and X^2 tests, analysis of variance, goodness of fit tests, use of probability paper, and control chart analysis of experimental results. Also included are experimental design methods such as: full and fractional factorial designs, regression analysis, multiple and random balance designs, latin square, cube and nested designs, etc.
Prerequisite: QUAL C202.

QUAL C208
Quality Assurance Technology (6 credits)

The basic principles of quality assurance, and its definition as a planned and systematic pattern of actions necessary to provide adequate confidence that a product or service conforms to established requirements. The development of the individual quality system in a modular format to cover the various phases of the industrial and commercial enterprise. Topics include: development of Quality Organizations, systems engineering, closed loop feedback systems, principle of modular systems, what the customer expects versus what he gets, development of quality product, computer software QA, product safety and reliability, vendor-vendee relations, manufacturing, processing and post production servicing.
Note A: See §200.6.

QUAL C209
Product Cost Control (3 credits)

This course introduces the student to product cost control and related areas. Topics include introductions to: accounting, procedures, cash flow, budgeting, capital equipment costing and amortization, product costing, cost of quality control systems ('quality costs').
Lectures: 3 hours per week.



81 Faculty of Fine Arts

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81.1 Faculty of Fine Arts

Dean
ALFRED PINSKY

Assistant Dean
GERRY GROSS

Associate Dean
EDWY F. COOKE

Assistant to the Dean (Student Programmes)
E. ANNE ADAMS

81.2 Admission Requirements

General admission requirements are listed in § 13. Recommendations for admissions to the programmes in the Faculty of Fine Arts are as follows:

Art Education
Specialization: 8 CEGEP courses in Studio Art or exemption for Art C200
Major: 8 CEGEP courses in Studio Art or exemption for Art C200*
Certificate: the candidate must be legally qualified to teach at the elementary level

Archaeology
Minor: no specific requirements

Art History
Honours: students must apply for entry to the programme after the completion of 30 credits and prior to the commencing of the final 30 credits
Major, Minor: no specific requirements

Cinema
Specialization in Film Production: Normally students applying for the Specialization are admitted into the Major in Cinema. Upon completion of the 18 credits required in both the Major in Cinema and the Specialization in Film Production, students may apply for transfer into the Specialization in Film Production. Acceptance into this programme is based on the student's performance in the University, especially on the creative potential shown in Film Production C231.
Specialization in Film Studies: Normally students applying for the Specialization are admitted into the Major in Cinema. Upon completion of both Film Studies C211 and C212 students may apply for transfer to the Specialization in Film Studies. Acceptance into this programme is based on the student's performance in the University, especially on the critical or scholarly potential shown in Film Studies C211 and C212.
Major: interview — a portfolio may be submitted at the interview
Minor: no specific requirements

Film Animation
Minor: portfolio

Fine Arts
Major: no specific requirements

Graphic Design
Specialization: 8 CEGEP courses in Studio Art or exemption for Art C200. Normally students applying for the Specialization are admitted into the Major in Graphic Design. Upon completion of their first year, which is common to both programmes, students may apply for transfer by submitting their portfolios. Acceptance is based on the student's performance in the University, especially in the Studio Art courses.
Major: 8 CEGEP courses in Studio Art or exemption for Art C200*

Modern Dance
Major: no specific requirements

Music
Specialization: 6 CEGEP courses in Music**. Students applying for entrance to the specializations are accepted into the Major in Integrative Music Studies. Upon completion of the core requirements, students may apply for transfer into one of the specializations. Acceptance is based on the student's general academic performance in all University courses, but especially in the core courses.
Major, Minor: no specific requirements

Photography
Minor: portfolio — no specific CEGEP programme

Printmaking
Specialization: Normally students applying for entrance to this Specialization are accepted into the Major in Studio Art. It is recommended that full-time students register for 12 credits in Printmaking in their first 30 credits. Upon completion of these credits students may apply for transfer by submitting their portfolios. Acceptance into the Specialization is based on the student's academic performance at Concordia and especially on the portfolio.

Studio Art
Major: 8 CEGEP courses in Studio Art or exemption for Art C200*

Theatre Arts
Specialization: Normally students applying for one of the specializations in Theatre Arts are admitted into the Major

in Drama. Upon completion of the first year (24-30 credits) students may apply for transfer into one of the specializations. Acceptance is based on the student's performance in the University.
Major, Minor: no specific requirements
Certificate: the candidate must be legally qualified to teach or be engaged in teaching.

**A student without the necessary studio courses must take Art C200 as a prerequisite for other studio art courses. Applicants with some studio art background may submit a portfolio and/or slides of work to the Portfolio Committee of the Division of Visual Arts requesting exemption for Art C200.*

***A student without the necessary music courses must take Music C221 and C222 as a prerequisite to other music courses. Applicants requesting exemption for Music C221 and C222 who have some background in Music Theory may complete the Music Theory Placement Test at the Music Section in the Division of Performing Arts.*

81.2.1 TRANSFER STUDENTS

Students who have already completed courses in other colleges or universities who wish to apply for advanced standing will be granted credits on the basis of the programme at Concordia University.

Transfer applicants for all Studio Art programmes will be required to submit a portfolio and/or slides of work to the Portfolio Committee, Division of Visual Arts, for placement recommendation. *This must be done prior to registration.* Students seeking a second degree must complete a minimum of 60 credits at Concordia University, while students transferring credits towards a first degree must complete a minimum of 45 credits at Concordia. (see § 16.1.5 and § 81.3.2)

81.2.2 PORTFOLIO COMMITTEE

Any student wishing to enter a Studio Art course, who does not have an exemption for Art C200, but has previously studied studio art, must submit a portfolio of their work. This portfolio is submitted at least one week prior to registration, to the Portfolio Committee of the Division of Visual Arts for placement recommendation.

81.3 Degree Requirements

Students preparing for the degree of Bachelor of Fine Arts will take a minimum of 90 credits. Each credit represents, for the average student, a minimum of 45 hours of work spread across lectures, conferences, laboratories, studio or practice-periods, tests, examinations and personal work.

81.3.1 BFA DEGREE REQUIREMENTS

Graduation with the degree of Bachelor of Fine Arts requires:

Successful completion of a Specialization, a Major or a Double Minor programme in Fine Arts.

Students must successfully complete at least 24 of the 90 credits outside their area of concentration. These 24 credits shall be selected according to the following requirements:

a) 6 credits may be within the Faculty of Fine Arts, but must be outside their area of concentration.**

b) 18 credits shall be outside the Faculty of Fine Arts*

**Communication Studies courses do not fulfill the B.F.A. degree requirement which states that 18 credits shall be outside the Faculty of Fine Arts.*

***Students enrolled in the Specialization in Art Education or Graphic Design (72 credits each) are permitted to use one of their required courses in Art History (6 credits) to satisfy this requirement. To fulfill this requirement, students whose programmes already contain a large studio component, such as Art Education, Graphic Design, Printmaking or Studio Art may not select credits from Studio Art or Art Education except for Art C220, Art C460, Art C461 or Photography C250.*

Concentration Requirement

The Concentration Requirement can be satisfied either by a Specialization, a Major or a Double Minor (2 x 30 credits) programme. The selection is to be made upon entry, prior to registration.

The requirement of selecting a programme upon entry should not be thought of as being necessarily a final commitment. The Fine Arts programme is designed to be flexible enough to allow for changes, subject to limitations where certain programmes are in great demand.

A "Minor" is made up of an approved sequence of 30 credits. The term "Double Minor" states that the student has followed, within the requirements for the BFA degree, a planned programme of study in two specialized fields, with a lower degree of concentration in either than is afforded by a Major Programme.

81.3.2 RESIDENCY REQUIREMENTS

To fulfill the residency requirements for a BFA degree with a Specialization or Major in —

1. Art Education, Graphic Design, Printmaking or Studio Art: at least 30 credits in Studio Art and 6 credits in Art History must be taken at Concordia.

2. Cinema, Film Production or Film Studies: at least half of the required credits in Cinema must be taken at Concordia.

3. Drama, Drama in Education, Theatre Performance or Theatre Scenography: at least 30 credits in Theatre Arts must be taken at Concordia.

4. Music, Music Performance Studies, Music Theory/Composition, Selected Music Studies or Studio Music: at least 30 credits in Music must be taken at Concordia.

5. Minor programmes: at least 15 credits required in the minor must be taken at Concordia.

Ordinarily this, combined with the other Degree requirements (see § 81.3) implies that the full-time student must enroll for a minimum of two years of study at Concordia University.

Students are also subject to the University residency requirements (see § 16.1.5).

81.3.3 COURSE LOAD

The normal course load for the Faculty of Fine Arts is 30 credits per year for a full-time student.

i) Students may not register for more than 18 credits in any studio area in any given academic year.

ii) Students may register for only 6 credits (one course) in which films are produced as a course requirement during any given academic year. *See § 81.7.3 for list of courses.* Also, students are limited, during their degree programme, to 18 credits in Film Production courses in which films are produced as a course requirement. *See § 81.7.3.*

iii) Students may register for only 6 credits in Theatre Production (Theatre Arts Section) in any given academic year.
To carry additional credits the student must submit a request for permission to do so to the Student Request Committee of the Faculty.

81.3.4 BFA HONOURS PROGRAMME REQUIREMENTS

See Academic Regulations § 16.2.4

Prospective Honours Students must apply for entry to the programme after the completion of 30 credits and prior to the commencing of their last 30 credits of the B.F.A. degree.

Applications are made through the honours advisers upon completion of 30 credits.

81.3.5 HONOURS COMMITTEE

Dean, A. PINSKY, *Chairman*
Assistant Professor R. PARKER, *Director of the Division of Visual Arts*
Assistant Professor S. PAIKOWSKY, *Assistant Director of Visual Arts, Art History*
Associate Professor E. JAMES, *Honours adviser*
Registrar's delegate C. FOSTER
Honours student representative

81.3.6 DIPLOMA IN ART EDUCATION

The Faculty of Fine Arts offers a one year post-graduate programme leading to the Diploma in Art Education.

This programme is integrated with the Bachelor of Fine Arts (Specialization in Art Education) to provide a continuous pattern of studies preparing art specialists for teaching in elementary and secondary schools.

In order to qualify for admission, students must have completed the Concordia University Bachelor of Fine Arts (Specialization in Art Education) or the equivalent. Graduates of other institutions will be considered if they have had the equivalent of an undergraduate major in studio work and can present an acceptable portfolio. They will be expected to make up the Education and Art Education courses included in the Bachelor of Fine Arts, Specialization in Art Education.

The Diploma Programme is offered in the Day only. Graduates who have been awarded the Diploma in Art Education meet the requirements for a Specialists Certificate in Art, awarded by the Quebec Board of Education.

A detailed description of the Programme may be found in the Graduate Studies Calendar.

81.3.7 PROGRAMME ADVISERS

The Faculty of Fine Arts has a Student Programme Office where students obtain information on Faculty regulations and assistance in planning their programmes in Fine Arts. These advisers have a complete list of faculty members to whom students are referred for detailed information on classes and programmes.

Division of Visual Arts

Director of the Division of Visual Arts
R. PARKER

81.4 STUDIO ART

81.5 ART EDUCATION

81.6 ART HISTORY

81.7 CINEMA

81.4 Studio Art

Associate Professor and Assistant Director Visual Arts, Studio Art
J. I. SMITH

Assistant Professor and Assistant Director Visual Arts, Studio Art
S. HUDSON

Professors
G. MOLINARI
Y. GAUCHER
A. PINSKY

Associate Professors
U. COMTOIS
J. GOGUEN
R. GORDON
D. JONES
H. W. JONES
J. KELLY
J. KRAUSE
P. LANDSLEY
J. MILLER
F. MULVEY
B. WAINWRIGHT

Assistant Professors
R. BIGELOW
M. DEWES
D. DORRANCE
J. FOX
T. GIBSON
P. KOHLER
K. LIPKE
L. PLOTEK
I. WHITTOME

Lecturers
W. KROL
K. TWEEDIE

81.4.1 PROGRAMMES

Students are responsible for fulfilling their particular degree requirements, hence the following sequence must be read in conjunction with § 81.3.

The superscript indicates credit value.

72 BFA Specialization in Graphic Design

30 Drawing C200^6, Design C200^6, Graphic Design C260^6, Photography C200^6, Graphic Design C300^6
6 Art C220^6 or 6 credits in Art History elective
6 Art History C240^6 or, if exempt, an Art History elective
12 Graphic Design C310^6, C320^6, C330^6, C340^6
6 Graphic Design C410^6, C420^6, C430^6, C440^6
6 Graphic Design elective
6 Studio Art elective

66 BFA Specialization in Printmaking*

12 Art History electives
12 Drawing C200^6, C300^6
12 Printmaking C310^6, C320^6, C330^6
6 Painting C200^6, Photography C200^6, Sculpture C200^6 or studio elective

Option A (Intensive)

12 Printmaking C210^6, C220^6, C230^6
6 Printmaking C410^6, C420^6, C430^6
6 Printmaking C450^6, Art C440^6

Option B (Extensive)

18 Printmaking C210^6, C220^6, C230^6
6 Printmaking C410^6, C420^6, C430^6, C450^6, Art C440^6

** All students select courses from the core of 42 credits.*

Option A permits specialization in two of the three areas of printmaking (intaglio, lithography or serigraphy).

Option B requires students to follow courses at the 200 level in all three areas of printmaking.

60 BFA Major in Art History and Studio Art

6 Art History C240^6 or, if exempt, an Art History elective
6 Art C434^6 or Studio Art elective
24* Art History electives
24 Studio Art electives

** Art C460 may be substituted for 6 credits in Art History*

60 BFA Major in Fine Arts*

0-24 Art History Section: Art History elective credits**
0-24 Cinema Section: Cinema elective credits chosen from Film Studies C200^6, C211^6, C212^6, C311^3, C312^3, C313^3, C314^3, C315^3, C318^3, C321^6, C322^6, C323^3, C324^3, C326^3, C327^3, C328^3, C329^3, C411^3, C413^3, C414^3, C415^3, C416^3, C417^3, C418^3, C419^3, C422^3, C423^3, C424^3, C425^3, C427^3. Film Animation C312^6, Film Production C231^6
0-24 Dance Section: Dance elective credits chosen in consultation with the Dance co-ordinator
0-24 Music Section: Music elective credits chosen in consultation with a programme adviser, Music
0-24 Studio Art Section: Studio Art elective credits**
0-24 Theatre Arts (Drama) Section: Theatre Arts elective credits chosen in consultation with a programme adviser, Theatre Arts

** Credits must be taken in a minimum of 3 fields of concentration with a maximum of 24 credits in any field.*

*** Art C460 may be substituted for 6 credits in Studio Art or Art History.*

60 BFA Major in Studio Art

6 Art History elective credits
6 Lecture/seminar elective credits in Art or Art History
48 Visual Arts Studio elective credits (6 credits may be taken in studio courses in Cinema, Dance, Music or Theatre Arts selected in consultation with an adviser from Cinema, Dance, Music or Theatre Arts)

54 BFA Major in Graphic Design

24 Drawing C200[6], Design C200[6], Graphic Design C260[6], Graphic Design C300[6]
6 Art C220[6] or Art History elective
6 Art History C240[6] (or, if exempt, an Art History elective)
6 Graphic Design C310[6], C320[6], C330[6], C340[6]
6 Graphic Design C410[6], C420[6], C430[6], C440[6]
6 Studio Art elective or Film Animation C312[6]

30 Minor in Art History and Studio Art

6 Art History C240[6] or, if exempt, an Art History elective
12-18 Art History electives
12-18 Studio Art electives

30 Minor in Photography

24 Photography C200[6], C250[6], C300[6], C400[6]
6 Photography C310, or Visual Arts elective

81.4.2 COURSE DESCRIPTIONS

Portfolios: Students without 8 credits in CEGEP Studio Art who wish to register for a course in Studio Art must first complete Art C200. However, they may submit a portfolio of their work to the Portfolio Committee of the Division of Visual Arts requesting exemption for Art C200. Portfolios must be submitted at least one week prior to the student's registration date.*

NOTE: Students are required to bear the cost of materials in Studio Art courses.

Art:

ART C200
Studio Art I
An introduction to studio art including drawing, painting, design, sculpture and related media. (6 credits) *NOTE A/See § 200.3*

ART C220
Theories of Design
An examination of outstanding and significant achievements in the field of design. Special emphasis is placed on the development of design as an independent art form in the twentieth century. (6 credits)

ART C420
Special Topics in Studio Art
Prerequisite: 18 credits in studio art and written permission of the Director of Visual Arts. A course for advanced students which provides an opportunity for the study of more specialized areas in studio art. (6 credits)

ART C434
Materials and Methods of the Artist
Prerequisite: Written permission of the Director of Visual Arts. Through a series of special projects this courses familiarizes the student with some of the various materials, techniques and other aspects of the artist's craft. Since special emphasis is given to historical techniques this course is particularly recommended to all students in art history. Lectures and studio periods. (6 credits) *NOTE A/See § 200.3*

ART C436
Studio Workshop: Special Studies
Prerequisite: Third year standing* and written permission of the Director of Visual Arts. This course provides the opportunity for a limited number of students to pursue advanced studies in the studio area. (6 credits) *NOTE A/See § 200.3*

** less than 36 credits remaining in degree programme*

ART C440
Papermaking: Process and Assemblage
Prerequisite: 24 credits in studio art. The making and use of paper as related to the Visual Arts. The course examines the physical and structural possibilities of paper as well as impression, assemblage and surface use. (6 credits)

ART C460
Analysis of Great Works of Art
A course in art principles. Through the formal analysis of selected masterpieces of painting and sculpture the student is led to a fuller comprehension of the nature of formal order in the arts. (6 credits) *NOTE A/See § 200.3*

ART C461
Aesthetic Inquiry in Visual Arts
A course in the application of aesthetic theories to the objects and events of visual arts. Topics include the artistic process as expression, intuition and imagination. Further consideration is given to the products of

painting, sculpture and graphics emphasizing various contemporary critical and theoretical stances. (6 credits) *NOTE A/See § 200.3*

ART C480
Special Topics in Studio Art
Prerequisite: Art C420 and written permission of the Studio Art Section. A student repeating Art C420 registers under Art C480 for credit. (6 credits)

ART C485
Special Topics in Studio Art
Prerequisite: 18 credits in studio art and written permission of the Director of Visual Arts. A course for advanced students which provides an opportunity for the study of more specialized areas in studio art. (3 credits)

ART C486
Special Topics in Studio Art
Prerequisite: Art C485 and written permission of the Section. A student repeating Art C485 registers under Art C486 for credit. (3 credits)

Crafts:

CRAFTS C200
Introduction to Crafts
Prerequisite: Art C200 previously or concurrently, or Art C200 exemption. A studio course introducing ceramics, fibres and metals as used in contemporary crafts. Students explore the structural, functional and expressive possibilities of these media. Consideration is given to the history of crafts and the relationship of crafts to other art forms. (6 credits) *NOTE A/See § 200.3*

CRAFTS C310
Introduction to Ceramics
Prerequisite: Crafts C200. An introduction to clay as an art medium. The students investigate the various aspects of forming, shaping, and decorating clay for firing and glazing. (6 credits) *NOTE A/See § 200.3*

CRAFTS C320
Fibre Structures
Prerequisite: Crafts C200. The use of various processes of fibre construction as art: loom and non-loom weaving, basketry, spinning, dyeing, and primitive fibre techniques. Consideration is given to the history of the styles, materials, methods and techniques of textiles. (6 credits)

CRAFTS C410
Ceramics II
Prerequisite: Crafts C310. Advanced studies in forming and finishing clay. (6 credits)

CRAFTS C450
Advanced Workshop in Crafts
Prerequisite: 12 credits in Crafts, written permission of the Crafts Coordinator and third-year standing. This workshop provides the opportunity for a limited number of students to pursue advanced studies in Crafts. (6 credits)

Design:

DESIGN C200
Fundamentals of Design I
Prerequisite: Art C200 previously or concurrently, or Art C200 exemption. A comprehensive introduction to the practical and theoretical study of two and three dimensional design: the elements and principles of visual communication, analysis of structure and form, materials and methods of the designer. (6 credits) *NOTE A/See § 200.3*

DESIGN C202
Design in the Arts I
Prerequisite: Written permission of the Director of Visual Arts. Major in Dance or second year standing in a Faculty of Fine Arts programme outside of Studio Art Section. A foundation course in the elements and principles of design for Fine Arts students with concentrations outside of Studio Art. The focus is on process rather than product creation in this theoretical and practical preparation for design problems in the student's area of concentration. (3 credits)

DESIGN C203
Design in the Arts II
Prerequisite: Design C202. A continuation of Design C202. (3 credits)

DESIGN C300
Design II
Prerequisite: Design C200. Continuation of Design C200. A practical and theoretical course reflecting the comprehensive nature of design. Emphasis is placed on problem identification and resolution using the resources and inquiry methods of the designer. (6 credits)

Drawing:

DRAWING C200
Drawing I
Prerequisite: Art C200 or Art C200 exemption. An exploration of drawing as a means of expression. Various media are employed to examine and express form, space, figurative and other graphic images. Drawing from observation, imagination and memory is included. (6 credits) *NOTE A/See § 200.3*

DRAWING C300
Drawing II
Prerequisite: Drawing C200. A drawing course in which various media and forms of expression are explored at the more advanced level. Lectures and studio periods (6 credits) *NOTE A/See § 200.3*

DRAWING C400
Drawing III
Prerequisite: Drawing C300. Continuation of Drawing C300. (6 credits) *NOTE A/See § 200.3*

Graphic Design:

GRAPHIC DESIGN C260
Graphic Design I
Prerequisite: Enrolment in the Graphic Design Major or Specialization. The tools and techniques of graphic communication with special emphasis on typography. A context for these studies is provided by an inquiry into the cultural and communicative roles of the graphic designer. (6 credits) *NOTE A/See § 200.3*

GRAPHIC DESIGN C300
Graphic Design II
Prerequisite: Graphic Design C260. A continuation of Graphic Design C260. The graphic combination of text and illustration is emphasized in various formats. Portfolio development is required. (6 credits) *NOTE A/See § 200.3*

GRAPHIC DESIGN C310
Illustration I
Prerequisite: Design C200, Drawing C200 and Graphic Design C260. Exploration of the ideas, techniques and materials of the illustrator. The course focuses upon both personal development in drawing and technical facility. Students are required to develop their portfolios in illustration. (6 credits)

GRAPHIC DESIGN C320
Display Graphics I
Prerequisite: Design C200, Drawing C200 and Graphic Design C260. The dynamics of spatial organization as applied to graphic communication. A study of the function of contemporary three dimensional graphics provides a background for studio experiences with structural materials and shop tools. Students are required to develop their portfolios in display graphics (6 credits)

GRAPHIC DESIGN C330
Sequential Graphics I
Prerequisite: Design C200, Drawing C200 and Graphic Design C260. The design of brochures, folders, books, magazines and other visual formats including slide presentations. Important considerations include clarity of communication and visual integration of sequential units. Students are required to develop their portfolios in sequential graphics (6 credits)

GRAPHIC DESIGN C340
Typography and Poster Graphics I
Prerequisite: Design C200, Drawing C200 and Graphic Design C260. Typography, graphic symbols and images as applied to posters. The course includes a survey of posters as vehicles for social and political aims as well as for advertising purposes. Students are required to develop their portfolios in typography and poster graphics. (6 credits)

GRAPHIC DESIGN C410
Illustration II
Prerequisite: Graphic Design C310 and written permission of the Section. A continuation of Graphic Design C310. While the course deals with a variety of techniques useful in editorial and advertising illustration, it emphasizes personal development in drawing and encourages experimentation with original ideas. Students are required to develop their portfolios in illustration. (6 credits) *NOTE A/See § 200.3*

GRAPHIC DESIGN C420
Display Graphics II
Prerequisite: Graphic Design C320[6] and written permission of the Section. A continuation of Graphic Design C320 with emphasis on packaging and exhibition graphics. Students are required to develop their portfolios in display graphics. (6 credits)

GRAPHIC DESIGN C430
Sequential Graphics II
Prerequisite: Graphic Design C330 and written permission of the Section. A continuation of Graphic Design C330. Students are required to develop their portfolios in sequential graphics. (6 credits) *NOTE A/See § 200.3*

GRAPHIC DESIGN C440
Typography and Poster Graphics II
Prerequisites: Graphic Design C340 and written permission of the Section. A continuation of Graphic Design C340. Students are required to develop their portfolios in typography and poster graphics. (6 credits)

GRAPHIC DESIGN C460
Special Topics in Graphic Design
Prerequisite: 18 credits in Graphic Design and written permission of the Section. A course for advanced students which provides an opportunity for the study of more specialized areas in Graphic Design. (6 credits)

GRAPHIC DESIGN C461
Special Topics in Graphic Design
Prerequisite: 18 credits in Graphic Design and written permission of the Section. A course for advanced students which provides an opportunity for the study of more specialized areas in Graphic Design. (3 credits)

GRAPHIC DESIGN C462
Special Topics in Graphic Design
Prerequisite: Graphic Design C461 and written permission of the Section. A student repeating Graphic Design C461 registers under Graphic Design C462 for credit. (3 credits)

Painting:

PAINTING C200
Painting I
Prerequisite: Art C200 or Art C200 exemption. An exploration of painting, colour, style, image, visual skills and the technology of painting materials. (6 credits) *NOTE A/See § 200.3*

PAINTING C300
Painting II
Prerequisite: Painting C200. A course in which various media and forms of expressions are explored at the more advanced level. (6 credits) *NOTE A/See § 200.3*

PAINTING C400
Painting III
Prerequisite: Painting C300. A continuation of Painting C300. (6 credits) *NOTE A/See § 200.3*

PAINTING C450
Advanced Studio in Painting
Prerequisite: Painting C400. A continuation of Painting C400. (6 credits) *NOTE A/See § 200.3*

Photography:

PHOTOGRAPHY C200
Foundations in Photographic Vision: Theory and Practice I
Prerequisite: Minor in Photography, Cinema Major or second year standing* in a

Specialization/Major in the Visual Arts Division. An exploration of the aesthetics of photography through the rapid accumulation of images in the field and through the study of contact sheets and prints in the studio. Emphasis is placed upon developing an ability to see photographically. (6 credits) *NOTE A See § 200.3*

** Less than 66 credits remaining in degree programme.*

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

PHOTOGRAPHY C250
Development of Photographic Traditions

Prerequisite: Enrolment in a BFA degree programme or third-year standing.* A course tracing the development of photography from its earliest appearance to the present. Issues are dealt with thematically and include ideas about photographs as documents, means of social criticism, forms of personal expression and sequential imagery. Reference is made to the relationship between photographs and other forms of art and to the social or political contexts which influenced its development. (6 credits)

** Less than 36 credits remaining in degree programme.*

PHOTOGRAPHY C300
Photographic Vision: Theory and Practice II

Prerequisite: Photography C200 and C250 or written permission of the Section. A studio course directed towards refining darkroom techniques and extending the use of photography as a means of personal expression. Regularly scheduled seminars provide a historical context for contemporary issues. (6 credits)

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

PHOTOGRAPHY C310
Light and the Zone System

Prerequisite: Photography C200 and C250. A studio course dealing with the most essential element of photography, light, through an introduction to the zone system and its application to large and small format. The use of the zone system by contemporary photographers is discussed. (6 credits)

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

PHOTOGRAPHY C400
Advanced Workshop in Photography

Prerequisite: Photography C300. Advanced methods of black and white printing and investigations into the use of colour in photography. Students also explore methods of conservation and presentation related to exhibitions, portfolios and books. (6 credits)

NOTE: Students are required to bear the cost of film stock, processing, printing and other materials.

Printmaking:

PRINTMAKING C210
Intaglio I

Prerequisite: Drawing C200 previously or concurrently. A study of the basic principles of traditional and contemporary intaglio techniques such as drypoint, etching and aquatint. (6 credits) *NOTE A/See § 200.3*

PRINTMAKING C220
Lithography I

Prerequisite: Drawing C200 previously or concurrently. A study of the basic principles of traditional and contemporary techniques in stone and plate lithography. *NOTE A/See § 200.3*

PRINTMAKING C230
Serigraphy I

Prerequisite: Drawing C200 previously or concurrently. A study of the basic principles of screen printing including direct techniques, photo-screen and cut film. (6 credits) *NOTE A/See § 200.3*

PRINTMAKING C310
Intaglio II

Prerequisite: Printmaking C210. Continuation of Printmaking C210. (6 credits) *NOTE A/See § 200.3*

PRINTMAKING C320
Lithography II

Prerequisite: Printmaking C220. Continuation of Printmaking C220. (6 credits) *NOTE A/See § 200.3*

PRINTMAKING C330
Serigraphy II

Prerequisite: Printmaking C230. Continuation of Printmaking C230. (6 credits) *NOTE A/See § 200.3*

PRINTMAKING C410
Intaglio III

Prerequisite: Printmaking C310. Advanced intaglio techniques. (6 credits)

PRINTMAKING C420
Lithography III

Prerequisite: Printmaking C320. Advanced lithographic techniques. (6 credits)

PRINTMAKING C430
Serigraphy III

Prerequisite: Printmaking C330. Advanced screen printing. (6 credits)

PRINTMAKING C450
The Print in Books, Portfolios and Other Containers

Prerequisite: Printmaking C310 or C320 or C330 previously or concurrently, and 18 credits in studio art. The print in books, portfolios and other containers. Emphasis is placed on relief and intaglio methods and the relationship of type to image. (6 credits)

Sculpture:

SCULPTURE C200
Sculpture I

Prerequisite: Art C200 or Art C200 exemption. An investigation into the methods, materials and modes of expression in sculpture. Both traditional and contemporary materials and techniques are used. (6 credits) *NOTE A/See § 200.3*

SCULPTURE C300
Sculpture II
Prerequisite: Sculpture C200. Continuation of Sculpture C200. (6 credits) *NOTE A/See § 200.3*

SCULPTURE C400
Sculpture III
Prerequisite: Sculpture C300. Continuation of Sculpture C300. (6 credits) *NOTE A/See § 200.3*

81.5 Art Education

Associate Professor and Assistant Director
Visual Arts, Art Education
S. HORNER

Professor
L. SHERMAN

Associate Professor
M. EDWARDS
E. SACCA

Assistant Professors
D. PARISER
R. PARKER
R. STALEY
N. WAGNER

81.5.1 PROGRAMMES

Students are responsible for fulfilling their particular degree requirements, hence the following sequence must be read in conjunction with § 81.3.

The superscript indicates credit value.

72 BFA Specialization in Art Education

6 Art Education C300[6]
6 Art Education C400[6]
6 Art History C240[6] (or, if exempt, an Art History elective)*
6 Art History C444[6]
24 Drawing C200[6], Painting C200[6], Sculpture C200[6] and Print-making C210[6] or C220[6] or C230[6]
12 Studio Art elective credits chosen in consultation with a programme adviser, Art Education
6 Crafts C200[6]
6 Art Education C430[6]

** Art C460 may be substituted for an Art History elective.*

NOTE: Students applying to the Diploma in Art Education and Quebec Certification must in addition take Education C210.

60 BFA Major in Art Education

6 Art Education C300[6]
6 Art Education C400[6]
6 Art History C240[6] (or, if exempt, an Art History elective)*
6 Art History C444[6]
6 Crafts C200[6]
30 Studio Art elective credits (Film Animation C312 may be substituted for 6 credits in Studio Art)

** Art C460 may be substituted for an Art History elective.*

NOTE: This programme is an alternative to the BFA Specialization in Art Education and does not lead directly into the Diploma programme. Electives permit a wider choice in appropriate complementary areas in preparation for graduate study in areas such as art therapy, museum work, recreation, geriatrics and fine arts administration. Students wishing to qualify for the Diploma should consult the Graduate Calendar.

81.5.2 CERTIFICATE IN ART EDUCATION FOR TEACHERS (Elementary School Level)

The Visual Arts Division offers a Certificate in Elementary Art Education for the professional development of teachers. The programme is designed in accordance with the guidelines of the Québec Ministry of Education and consists of studios, seminars, lectures, and a practicuum. Courses are scheduled in the late afternoon or evenings, both on and off campus for the convenience o teachers.

Admission Requirements

Entry into the programme requires that the candidate be legally qualified to teach at the elementary level. The Faculty of Fine Arts may allow up to 12 pro tanto credits in cases where students have completed appropriate courses that have not been applied to a previous degree or certificate. .

30 Certificate in Art Education for Teachers (Elementary School Level)

6 Art Education C200[6]
6 Art C200[6]
6 Art Education C330[6]
12 Electives from other offerings within the Faculty of Fine Arts

Art Education:

ART EDUCATION C200
Art for Classroom Use

A practical and theoretical course of particular use to teachers. Concepts of art education, the use of materials and techniques are considered in relation to classroom situations. Students are introduced to various art media including painting, collage construction, printing and modelling. The course includes the use of slides, films and selected readings. (6 credits) *NOTE A/See § 200.3*

ART EDUCATION C201
Art in Early Childhood I

Prerequisite: Enrolment in the Specialization in Early Childhood, Major in Child Studies or written permission of the Section. An introductory study of the art making process in early childhood. This course is a studio workshop which investigates potential media and teaching approaches appropriate for the young child. (3 credits)

Students who receive credit for this course may not take Art Education C200 for credit.

ART EDUCATION C202
Art in Early Childhood II

Prerequisite: Art Education C201. A continuation of Art C201. (3 credits)

ART EDUCATION C300
An Introduction to Art Education

Prerequisite: 30 university credits and enrolment in the Major or Specialization in Art Education. A workshop-seminar course in which materials and art concepts are investigated and related to the teaching of art. Readings in the literature of Art Education are included. (6 credits)

ART EDUCATION C301
Methodologies and Resources for the Teaching of Art History.

Prerequisite: Art History C240. This course deals with the methodologies, resources and content for teaching art history in elementary and secondary schools. The course consists of lectures, museum seminars and field trips. (3 credits)

ART EDUCATION C302
Special Topics in Art Education

Prerequisite: Written permission of the Section. A course which provides an opportunity for the study of specialized aspects of art education. Topics chosen for consideration vary from year to year. (3 credits) *NOTE C/See § 200.3*

ART EDUCATION C303
Special Topics in Art Education

Prerequisite: Written permission of the Section. A student repeating Art Education C302 registers under Art Education C303 for credits. (3 credits)

ART EDUCATION C330
Supervised Practicuum in Elementary Art Education

Prerequisite: Art Education C200, Art C200 and enrolment in the Certificate programme in Art Education for Teachers. The course includes weekly seminars which examine the role of art in the educational system and the theoretical framework for the planning and implementation of art activities. Students design curriculum units in art for the elementary level and teach these under supervision in a school setting. Teaching performance is evaluated. (6 credits)

ART EDUCATION C400
Seminar and Practicuum in Art Education

Prerequisite: Enrolment in the Specialization or Major in Art Education, or written permission of the Section. The development of a philosophy of art education on the basis of studio experiences, readings, the observation of and participation in teaching situations. The course includes weekly seminars, Saturday practicuum and observation in the high schools. (6 credits) *NOTE A/See § 200.3*

ART EDUCATION C401
Special Topics in Art Education

Prerequisite: Written permission of the Section. A course for advanced students which provides an opportunity for the study of limited and more specialized aspects of art education. The topics chosen for consideration vary from year to year according to the instructor's field of specialization. (3 credits) *NOTE C/See § 200.3*

ART EDUCATION C402
Special Topics in Art Education

Prerequisite: Written permission of the Section. A student repeating Art Education C401 registers under Art Education C402 for credit. (3 credits)

ART EDUCATION C430
Multi-Media

Prerequisite: 12 credits in studio art and enrolment in the Major or Specialization in Art Education or written permission of the Section. An introduction to photography, super-8 film-making, video and sound. The course deals with the practical and theoretical aspects of these media and explores their potential for the artist and art educator. (6 credits) *NOTE A/See § 200.3*

81.6 Art History

Assistant Professor and Assistant Director Visual Arts, Art History
S. PAIKOWSKY

Professors
E. F. COOKE
W. SANDERSON

Associate Professors
D. ANDRUS
H. GEORGE
E. JAMES
G. WALTERS

Assistant Professors
R. GREENBERG
L. LACROIX

Lecturer
C. MACKENZIE

81.6.1 PROGRAMMES

Students are responsible for satisfying their particular degree requirements, hence the following sequence must be read in conjunction with § 81.3.

The superscript indicates credit value.

60* BFA Honours in Art History

6 Art History C240[6] or, if exempt, Art History elective chosen in consultation with the Honours Adviser
12 Art History C420[6], C471[3], C472[3], C480[6], C490[6], C495[6]
42** Art History elective credits chosen in consultation with the Honours Adviser

** Part-time students enrolled in the Honours programme must successfully complete a minimum of 12 credits during each winter session in which the student is enrolled.*

*** With permission of the Honours Adviser, up to 12 credits in Art History may be substituted.*

Prospective Honours Students must apply for entry to the programme after the completion of 30 credits and prior to the commencing of their last 30 credits of the B.F.A. degree.

60 BFA Major in Art History

6 Art History C240[6], or, if exempt, an Art History elective
6 Art History C338[6], C339[6]
6 Art History C342[6], C442[6]
6 Art History C440[6], C441[6]
6 Art History C343[6], C346[6], C444[6], C455[6]
6 Art History C420[6], C471[3], C472[3], C480[6], C490[6]
6 Art History C443[6]
6 Art History elective
12* Art C200[6], Art C434[6], Art C460[6], Film Studies C211[6], Film Studies C212[6], Music History C200[6], Photography C250[6], Theatre C300[6]

** With permission, a student may register for alternate courses in the Faculty of Fine Arts.*

60 BFA Major in Art History and Studio Art

6 Art History C240[6] or, if exempt, an Art History elective
6 Art C434[6] or Studio Art elective
24* Art History electives
24 Studio Art electives

** Art C460 may be substituted for 6 credits in Art History*

60 BFA Major in Fine Arts*

0-24 Art History Section: Art History elective credits**
0-24 Cinema Section: Cinema elective credits chosen from Film Studies C200[6], C211[6], C212[6], C311[3], C312[3], C313[3], C314[3], C315[3], C318[3], C321[6], C322[6], C323[3], C324[3], C326[3], C327[3], C328[3], C329[3], C411[3], C413[3], C414[3], C415[3], C416[3], C417[3], C418[3], C419[3], C422[3], C423[3], C424[3], C425[3], C427[3], Film Animation C312[6], Film Production C231[6]
0-24 Dance Section: Dance elective credits chosen in consultation with the Dance co-ordinator
0-24 Music Section: Music elective credits chosen in consultation with a programme adviser, Music
0-24 Studio Art Section: Studio Art elective credits**
0-24 Theatre Arts (Drama) Section: Theatre Arts elective credits chosen in consultation with a programme adviser, Theatre Arts

** Credits must be taken in a minimum of 3 fields of concentration with a maximum of 24 credits in any field.*

*** Art C460 may be substituted for 6 credits in Studio Art or Art History.*

30 Minor in Archaeology

12 Art History C210[6], C310[6]
6 Art History C410[6], C415[6]
12 Electives chosen with the permission of the Archaeology Coordinator from appropriate courses in Anthropology, Art History, Chemistry, Classics, Geography, History or Physics

30 Minor in Art History

6 Art History C240[6] or, if exempt, an Art History elective
18 Art History C339[6], C342[6], C343[6], C455[6]
6 Art History elective

30 Minor in Art History and Studio Art

6 Art History C240[6] or, if exempt, an Art History elective
12-18 Art History electives
12-18 Studio Art electives

81.6.2 COURSE DESCRIPTIONS

ART HISTORY C210
Principles of Archaeology
An introduction to archaeological methods and techniques with examples drawn from the ancient civilizations of the Americas and the Mediterranean. (6 credits)

NOTE: Students who have received credit for Interdisciplinary Studies-Archaeology S333 or Archaeology-Interdisciplinary Studies S333 may not take this course for credit.

ART HISTORY C232
Introduction to Architecture and Sculpture
To enable the student to understand and appreciate great works in architecture and sculpture, and to develop a discriminative understanding of three-dimensional form in design and in his architectural environment. The main types, styles and techniques of these arts are explained and illustrated. To understand their significance, the student is encouraged to become familiar with great examples of these arts through pictorial reproductions, slides, models, museum visits, and field trips. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C240
Introduction to Art History
A study of selected works which represent outstanding and significant achievements in the visual arts. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C249
Canadian Sculpture and Architecture
A study of the more important developments of Canadian architecture and sculpture from indigenous forms to contemporary works. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C310
Applied Archaeology
Prerequisite: Art History C210. Students apply theoretical archaeological methods to the excavation of a prepared site and report on the excavation and their findings. (6 credits)

NOTE: Students who have received credit for Art History C480 must have written permission to register for this course from the Archaeology Coordinator.

ART HISTORY C338
Art in the Ancient Near East
An introduction to the art, architecture and minor arts in the ancient Near East and Aegean placing special emphasis upon Egypt, Mesopotamia, Crete and the Cycladic Islands. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C339
Art and Architecture in Ancient Greece and Rome
An introduction to the art and architecture of the Mycenaean, Greek, Etruscan and Roman civilizations. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C342
The Renaissance in Italy
A survey of painting, sculpture and architecture in Italy during the fifteenth and sixteenth centuries. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C343
The History of Nineteenth Century Art
Beginning with the age of Neo-classicism, this course examines Romanticism, Realism, Impressionism, Neo-impressionism and other nineteenth century European movements. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C346
History of Modern Architecture
An examination of the major building styles from the mid-eighteenth century through the twentieth century. Special emphasis on the contributions of individual architects. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C347
History of Drawing
Prerequisite: Six credits in Art History. The history of drawing in Western art. Topics examined include the working drawing, the emergence of drawing as an independent art form, the historical role of drawing in the education of the artist, and the formal qualities of drawing which distinguish it from other modes of visual expression. (3 credits)

ART HISTORY C348
History of Printmaking
Prerequisite: Six credits in Art History. The development and role of the print in the history of art. Topics include the evolution of the various techniques of printmaking, the educational function of the print, the formal qualities of the print which distinguish it from other means of visual expression, and its emergence as an independent art form. (3 credits)

ART HISTORY C410
Field Archaeology
Prerequisite: Art History C210 and C310. Supervised participation at a site approved by the Archaeology Coordinator. Students submit a paper concerning their participation in the excavation. (6 credits)

ART HISTORY C415
Topics in Archaeology
Prerequisite: Art History C210 and C310. A course for advanced students with subject matter varying according to the interests of the instructor. (6 credits)

ART HISTORY C420
Architectural Principles and Practice in the Western Tradition
Prerequisite: 12 credits in Art History or written permission of the Art History Section. An examination of the interrelationship between style, structure and meaning in selected periods of the History of Architecture. Consideration is also given to the social and aesthetic factors involved. (6 credits)

ART HISTORY C439
Iconography
Prerequisite: 12 credits in Art History. This course examines recurring visual symbols in Western Art which are derived from Classical or Christian literature. (6 credits)

ART HISTORY C440
Early Christian and Byzantine Art
Prerequisite: 6 credits in Art History or written permission of the Section. A history of Christian art and architecture from their late Roman beginnings through the 6th century in Western Europe to the fall of Byzantium in 1453 in the East. The genesis and growth of major iconographic themes and their changing stylistic expressions are considered in architecture, mural decoration, manuscript illumination, and the liturgical arts. (6 credits)

ART HISTORY C441
The History of Medieval Art
Prerequisite: 6 credits in Art History. The course examines the arts of the Middle Ages, beginning with the Carolingian Renaissance. Special emphasis is given to the architecture and sculpture of the Romanesque monasteries and the great Gothic cathedrals as well as the deluxe manuscripts of the French Court. (6 credits) *NOTE A/See § 200.3*

ART HISTORY G442
The Renaissance in Northern Europe
Prerequisite: 6 credits in Art History. This course investigates the development of art in France, Flanders, Germany and Austria in the fifteenth and sixteenth centuries. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C443
History of Baroque and Rococo Art and Architecture
Prerequisite: Art History C240 and 6 credits in Art History. This course examines the major achievements in Dutch, English, Flemish, French, Italian, Spanish, German and Austrian art and architecture in the seventeenth and eighteenth centuries. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C444
The Arts in Canada
Prerequisite: Art History C240 or enrolment in the Canadian Studies Major. A history of the arts in Canada from the seventeenth century to the present day. Where relevant, special attention is given to those European and American influences which have shaped its growth. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C445
American Art and the European Background
Prerequisite: Art History C240. A survey of American Art from earliest colonial times into the early 20th century, viewed against the background of those European developments which have significantly affected it. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C450
The Decorative Arts
Prerequisite: 6 credits in Art History. An examination of selected aspects of the Decorative Arts including furniture, glass, pottery and porcelain, metals and metal alloys, and textiles. (6 credits)

ART HISTORY C451
English Art 1750-1910
Prerequisite: 6 credits in Art History or written permission of the Art History Section. A study of English art from the beginning of Romanticism to the first Post-impressionist exhibition in London. The primary emphasis is on painting, its theoretical basis, and its relationship to Continental art. (6 credits)

ART HISTORY C455
Art in the Twentieth Century
Prerequisite: 6 credits in Art History. Starting with Fauvism, this course examines the main movements and trends which have occurred in Western art during the twentieth century. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C456
Art of the Americas
Prerequisite: 6 credits in Art History or written permission of the Art History Section. An examination of the art and architecture of selected indigenous cultures of the Americas emphasizing their place in an aesthetic and art historical tradition. (3 credits)

ART HISTORY C458
Non-Western Art
Prerequisite: 6 credits in Art History or written permission of the Art History Section. An examination of the art and architecture of selected Non-Western cultures emphasizing their place in an aesthetic and art historical tradition. (3 credits)

ART HISTORY C459
Western Art Since 1940
Prerequisite: 6 credits in Art History. An examination of recent developments in Western Art. Topics for discussion include the emergence of New York as a centre of contemporary art, the relationship of post World War II European art to that of North America, the generation of new art forms, the development of multi-media works and the nature and role of criticism. (6 credits)

ART HISTORY C471
Special Topics in Art History
Prerequisite: 12 credits in Art History or written permission of the Art History Section. A course for advanced students which provides an opportunity for the study of limited and more specialized aspects of Art History. (3 credits) *NOTE A/See § 200.3*

ART HISTORY C472
Special Topics in Art History
Prerequisite: Written permission of the Art History Section. A student repeating Art History C471 registers under Art History C472 for credit. (3 credits) *NOTE A, C/See § 200.3*

ART HISTORY C473
Special Topics in Art History
Prerequisite: Written permission of the Art History Section. A student repeating Art History C472 registers under Art History C473 for credit. (3 credits) *NOTE C/See § 200.3*

ART HISTORY C474
Special Topics in Art History
Prerequisite: Written permission of the Art History Section. A student repeating Art History C473 registers under Art History C474 for credit. (3 credits)

ART HISTORY C480
Special Studies in the History of Art

Prerequisite: 12 credits in Art History. Students in this course examine and discuss selected aspects of Art History. The areas chosen for consideration vary from year to year according to the instructor's field of specialization. All students are required to undertake research projects and to submit papers based on their investigations. (6 credits) *NOTE A/See § 200.3*

ART HISTORY C481
Special Studies in the History of Art

Prerequisite: Art History C480. A student repeating Art History C480 registers under Art History C481 for credit. (6 credits)

ART HISTORY C490
Advanced Studies in Art History

Prerequisite: 18 credits in Art History and written permission of the Art History Section. A course for advanced students which provides for the study of limited and more specialized areas of Art History. The areas chosen for study vary from year to year according to the instructor's field of specialization. All students are required to conduct research on selected aspects of the course topic. (6 credits) *NOTE A, C/See § 200.3*

ART HISTORY C491
Advanced Studies in Art History

Prerequisite: Written permission of the Section. A student repeating Art History C490 registers under Art History C491 for credit. (6 credits)

ART HISTORY C495
Independent Study

Prerequisite: Third year* standing in Honours Art History and written permission of Honours Adviser and Art History Section. Credit granted for independent projects supervised by a Faculty member. Students are required to submit a paper based on their investigation. (6 credits)

* *less than 36 credits remaining in degree programme*

81.7 Cinema

Assistant Professor and Assistant Director Visual Arts, Cinema
T. WAUGH

Associate Professor
J. LOCKE

Assistant Professors
A. HERMAN
P. SVATEK

Lecturers
J. LEVITIN
M. FALSETTO

81.7.1 PROGRAMMES

Students are responsible for fulfilling their particular degree requirements, hence the following sequences must be read in conjunction with § 81.3 and 81.3.3

The superscript indicates credit value.

66 BFA Specialization in Film Production

NOTE: It is strongly recommended that students in the Specialization in Film Production have, or acquire, a knowledge of French.

42 Film Studies C211^{6}, C212^{6}, C311^{3}, Film Production C231^{6}, C332^{6}, C337^{6}, C339^{3}, C432^{6}
9 Film Production C334^{3}, C335^{3}, C341^{3}, C438^{3}, C439^{3}, C440^{3}, C441^{3}, Photography C200^{6}
9 Film Studies elective credits (excluding Film Studies C200)*
6 Film Production or Film Studies elective credits (excluding Film Studies C200)*

**Français C373 and/or up to 12 credits in Communication Studies credits listed in Section 81.3.4 may be substituted for Film Studies elective credits and must be considered as Film Studies credits for degree purposes.*

66 BFA Specialization in Film Studies

NOTE: It is strongly recommended that students in the Specialization in Film Studies have, or acquire, a knowledge of French.

36 Film Studies C211^{6}, C212^{6}, C311^{3}, C312^{3}, C321^{6}, C322^{6}, Film Production C231^{6}
6 Film Studies C314^{3}, C315^{3}, C418^{3}, C419^{3}*
12 Film Studies elective credits (excluding Film Studies C200)**, Film Production C334^{3}, C341^{3}, C441^{3}
6 Film Studies C414^{3}, C415^{3}, C416^{3}, C417^{3}, C418^{3}, C419^{3}, C422^{3}, C423^{3}, C424^{3}
6 400 level Film Studies elective credits.

** Communication Studies C316 may be substituted for 3 credits in Film Studies and must be considered as Film Studies credits for degree purposes.*

***Français C373 and/or up to 12 credits in Communication Studies credits listed in Section 81.3.4 may be substituted for Film Studies elective credits and must be considered as Film Studies credits for degree purposes.*

48 BFA Major in Cinema

24 Film Studies C211^{6}, C212^{6}, C322^{6}, Film Production C231^{6}
12 Film Production C331^{6} and Film Production electives
or
Film Production C332^{6} and C337^{6}
12 * Cinema elective credits (excluding Film Studies C200)

** Français C373^{6} and Photography C200^{6} or up to 12 credits in Communication Studies credits listed in Section 81.3.4 may be substituted for cinema electives and must be considered as cinema credits for degree purposes.*

60 BFA Major in Fine Arts*

0-24 Art History Section: Art History elective credits**
0-24 Cinema Section: Cinema elective credits chosen from Film Studies C200^{6}, C211^{6}, C212^{6}, C311^{3}, C312^{3}, C313^{3}, C314^{3}, C315^{3}, C318^{3}, C321^{6}, C322^{6}, C323^{3}, C324^{3}, C326^{3}, C327^{3}, C328^{3}, C329^{3}, C411^{3}, C413^{3}, C414^{3}, C415^{3}, C416^{3}, C417^{3}, C418^{3}, C419^{3}, C422^{3}, C423^{3}, C424^{3}, C425^{3}, C427^{3}, Film Animation C312^{6}, Film Production C231^{6}
0-24 Dance Section: Dance elective credits chosen in consultation with the Dance co-ordinator
0-24 Music Section: Music elective credits chosen in consultation with a programme adviser, Music
0-24 Studio Art Section: Studio Art elective credits**
0-24 Theatre Arts (Drama) Section: Theatre Arts elective credits chosen in consultation with a programme adviser, Theatre Arts

** Credits must be taken in a minimum of 3 fields of concentration with a maximum of 24 credits in any field.*

*** Art C460 may be substituted for 6 credits in Studio Art or Art History.*

33 Minor in Film Animation*

27 Film Animation C312^{6}, C313^{6}, C414^{6}, Film Studies C212^{6}, C323^{3}
6 Art C200^{6} or if exempt Visual Arts Studio elective

30 **Minor in Cinema***

12 Film Studies C211[6], C212[6]

18** Cinema elective credits chosen from Film Studies C311[3], C312[3], C313[3], C314[3], C315[3], C318[3], C321[6], C322[6], C323[3], C324[3], C326[3], C327[3], C328[3], C329[3], C411[3], C413[3], C426[3], C427[3], Film Animation C312[6], C313[6], Film Production C231[6], C446[3], C447[3]

** This Minor cannot be combined with the Minor in Film Animation to form a Double Minor programme.*

*** Français C373[6] or up to 6 credits from Communication Studies credits listed in Section 81.7.4 may be substituted for cinema elective credits and must be considered as Film Studies credits for degree purposes.*

81.7.2 COURSE DESCRIPTIONS

Film Studies:

FILM STUDIES C200
Introduction to Film Studies

A survey acquainting the student with the art of the film. The technical and critical terminology of film studies will be discussed. Popular literature on film, such as reviews, will be analyzed and the more specialized film literature will be introduced. Directors whose films are usually viewed include Antonioni, Bergman, Truffaut, Jutra, Kurosawa, Hitchcock, Ford, Arzner, Hawks, Cukor, Grierson, Lang, Keaton and Chaplin. Weekly Screenings. (6 credits) *NOTE A/See § 200.3*

FILM STUDIES C211
History of Film

A study of the history of film from its beginning to the 1950's. Changes in the forms, functions, aesthetics and technology of film will be dealt with through the examination of individual works seen in a chronological sequence. Weekly screenings. (6 credits) *NOTE A/See § 200.3*

NOTE: A French section of this course will be offered under the direction of the Conservatory of Cinematographic Art.

FILM STUDIES C211
L'histoire du cinéma

Historique du cinéma, de ses débuts aux années 50. Les changements dans les formes, les fonctions, l'esthétique et les aspects techniques du cinéma y seront traités par l'examen des œuvres individuelles vues dans un ordre chronologique. Visionnements hebdomadaires. (6 crédits) *NOTE A/See § 200.3*

FILM STUDIES C212
Film Aesthetics

A study of the aesthetics of film. Topics include film criticism, theories about the fundamental elements of film, and comparisons between films which do not depend on their date of production. Problems of film description, interpretation and evaluation will be discussed. Weekly screenings. (6 credits) *NOTE A/See § 200.3*

FILM STUDIES C311
Montage Aesthetic

Prerequisite: Film Studies C212. An intensive study of montage as an element of film style. Beginning with the work of D. W. Griffith, developments in film editing are followed through French Avant-Garde and Russian films of the 1920's to contemporary film. Weekly screenings. (3 credits)

FILM STUDIES C312
Moving Camera Aesthetic

Prerequisite: Film Studies C212. An intensive study of camera movement as an element of film style. Consideration is given to relations between long takes, deep focus cinematography and camera movement as well as to the role of camera movement in creating the significations of film. Films by Murnau, Renoir, Welles, Ophuls and Snow are included among those viewed and discussed. Weekly screenings. (3 credits)

FILM STUDIES C313
Film Comedy I

Prerequisite: Second year standing.* An introduction to film comedy in the silent and sound eras. The visual and verbal sources of comedy are analysed through the study of films ranging from Mack Sennett's and Buster Keaton's to Woody Allen's and Jacques Tati's. Weekly Screenings. (3 credits)

** less than 66 credits remaining in degree programme*

FILM STUDIES C314
English Canadian Film

A survey of English Canadian film from the earliest surviving works to the present. Topics include fictional, documentary, animation and experimental film. The role of the National Film Board will be discussed. Weekly Screenings. (3 credits) *NOTE A/See § 200.3*

FILM STUDIES C315
Le cinéma québécois

Revue des films québécois mettant principalement l'accent sur les oeuvres contemporaines. Les aspects culturels et politiques particuliers de ces films seront examinés. La structure de l'industrie cinématographique du Québec et le rôle de l'Office National du Film y seront traités particulièrement. Visionnements hebdomadaires. (3 credits) *NOTE A/See § 200.3*

FILM STUDIES C318
Experimental Film

Prerequisite: Second year standing.* An examination of experimental film emphasizing developments from the late forties to the present. The New American Cinema is considered in relation to other North American and European experimental cinemas, and examples of the historical antecedents of recent experimental films are viewed and discussed. Weekly screenings. (3 credits)

** less than 66 credits remaining in degree programme*

FILM STUDIES C321
The Art of Film Directors

Prerequisite: Cinema C211 or second year standing.* A concentrated study of the work of several major directors from different periods in film history. Each director's work will be examined in detail with representative films from distinct periods. The films will be considered in terms of thematic and stylistic consistency and variation as well as bio-

graphical, social and political factors. Weekly screenings. (6 credits) *NOTE A/See § 200.3*

** less than 66 credits remaining in degree programme*

FILM STUDIES C322
Contemporary Film

Prerequisite: Cinema C211 or second year standing.* This course begins with the New Wave in France and the resurgence of European film in the late 1950's and includes recent trends in documentary, Japanese and Underground film. The films will be studied in the context of major philosophical, political and cultural developments of the period as well as contemporaneous developments in other art forms. Weekly screenings. (6 credits) *NOTE A/See § 200.3*

** less than 66 credits remaining in degree programme.*

FILM STUDIES C323
History of Animated Film

Prerequisite: Minor in Film Animation or second year standing.* A survey of animated film from the first decade of the twentieth century to the present. Styles of animation ranging from abstract experimental film of the 1920's to the Disney Studio to computer animation will be viewed and discussed. The contribution of the National Film Board of Canada and particularly that of Norman McLaren will be considered. Weekly screenings. (3 credits) *NOTE A/See § 200.3*

** less than 66 credits remaining in degree programme.*

FILM STUDIES C323
Histoire du cinéma d'animation

Préalable: Inscription à la mineure en cinéma d'animation ou niveau de scolarité de la deuxième année.* Aperçu général du film d'animation depuis la première décennie du vingtième siècle jusqu'à nos jours. Les styles d'animation, du film expérimental abstrait des années 20 au Studio Disney et à l'animation par ordinateur, seront présentés et étudiés. Sera traité aussi l'apport de l'Office National du Film, en particulier celui de Norman McLaren. Visionnements hebdomadaires. (3 crédits) *NOTE A/See § 200.3*

** moins de 66 crédits à obtenir dans le programme conduisant à un diplôme.*

FILM STUDIES C324
Film Script Analysis

Prerequisite: Second year standing and six credits in Film Studies. A study of the film script both as a basis for the construction of a film and as an identifiable component of film with its own history and value. Examples from film history as well as the work of major scriptwriters are analysed, in their written form and through film screenings. The stages of script development from story idea through shooting script are discussed. (3 credits)

FILM STUDIES C324
Analyse de scénarios

Préalable: niveau de scolarité de la deuxième année* et six crédits en études cinématographiques. Etude de scénarios sur deux plans: d'une part canevas du film et d'autre part élément identifiable ayant une histoire et une valeur propres. Analyse d'exemples tirés de l'histoire du cinéma et de l'oeuvre des plus grands scénaristes, à l'aide des textes euxmêmes et de visionnements. Les diverses étapes de rédaction du scénario depuis l'idée de départ jusqu'au découpage seront étudiées. (3 crédits)

** moins de 66 crédits à obtenir dans un programme conduisant à un diplôme.*

FILM STUDIES C326
Topics in National Cinemas

Prerequisite: Second year standing.* An examination of films as reflections of national cultures. Films by a range of directors representing one, or several, national grouping such as Japan, Brazil, Eastern Europe, Great Britain or Contemporary West Germany are discussed in the context of their aesthetic, cultural and political aspirations. Weekly screenings. (3 credits)

** less than 66 credits remaining in degree programme*

FILM STUDIES C326
Sujets dans les cinémas nationaux

Préalable: niveau de scolarité de la deuxième année.* Le cinéma, reflet des cultures nationales. Les films de nombreux réalisateurs représentant un ou plusieurs regroupements nationaux comme le Japon, le Brésil, l'Europe de l'Est, la Grande-Bretagne ou l'Allemagne de l'Ouest sont analysés à la lumière des aspirations esthétiques, culturelles et politiques qu'ils véhiculent. Visionnements hebdomadaires. (3 crédits)

** moin de 66 crédits à obtenir dans un programme conduisant à un diplôme.*

FILM STUDIES C327
Third World Film

Prerequisite: Second year standing.* A survey of Third World films seen in relation to their cultural, political and aesthetic environment. Films are selected from areas such as Latin America, the Caribbean, Africa, the Middle East, South and East Asia. Weekly screenings. (3 credits)

** less than 66 credits remaining in degree programme*

FILM STUDIES C327
Cinéma du Tiers-Monde

Préalable: niveau de scolarité de la deuxième année.* Revue des films du Tiers-Monde dans leur cadre culturel, politique et esthétique. Les films choisis viennent d'Amérique latine, des Antilles, d'Afrique, du Moyen-Orient, d'Asie du Sud et de l'Est. Visionnements hebdomadaires. (3 crédits)

** moins de 66 crédits à obtenir dans un programme conduisant à un diplôme.*

FILM STUDIES C328
Nonfiction Film Since 1956

Prerequisite: Second year standing.* A cross-cultural survey of contemporary developments in the documentary film. The course begins with the precursors of *cinéma-direct* in North America and Europe during the fifties and extends through the most recent applications of *cinéma-direct* in the emerging cinemas of the Third World.

Emphasis will be placed on both the artistic achievement and the theoretical, cultural and political context of the nonfiction film during this period of technological and aes-

thetic transition. Weekly screenings. (3 credits).

** less than 66 credits remaining in degree programme.*

FILM STUDIES C328
Le documentaire depuis 1956

Préalable: niveau de scolarité de la deuxième année.* Revue pan-culturelle des progrès actuels du documentaire. Le cours va de l'étude des précurseurs du cinéma direct en Amérique du Nord et en Europe durant les années 50 aux plus récentes applications chez les cinémas naissants des pays du Tiers-Monde. L'accent sera mis sur l'aspect artistique et le contexte théorique culturel et politique du documentaire durant cette période de transition technologique et esthétique. Visionnements hebdomadaires. (3 crédits)

** moins de 66 crédits à obtenir dans un programme conduisant à un diplôme.*

FILM STUDIES C329
Women and Film

Prerequisite: Film Studies C211 or second year standing.* An examination of films made by women, film criticism written by women and the portrayal of women in films. These topics will be considered within the context of film history and with an emphasis on their relation to ideas in contemporary feminist theory. Weekly screenings. (3 credits) *NOTE A/See § 200.3*

** less than 66 credits remaining in degree programme.*

FILM STUDIES C411
Advanced Studies in Film Genres

Prerequisite: Film Studies C211, Film Studies C322 or Communication Studies C310. An intensive analysis of one or two film genres which assumes previous experience in film genre studies. The genre will be discussed in terms of its structural characteristics and the ways in which it is a product of specific social situations. Weekly screenings. (3 credits)

FILM STUDIES C413
Film Comedy II

Prerequisite: Film Studies C313 or with written permission of the Cinema Section, Communication Studies C316. A continuation of Film Studies C313 on a more advanced level. Emphasis is placed on theoretical aspects of film comedy and the films of several major comic directors. Weekly screenings. (3 credits)

FILM STUDIES C414
Seminar in Film Directors I

Prerequisite: Written permission of the Cinema Section and eighteen credits in Film Studies. A seminar for advanced students which provides for more concentrated study of the work of specific film directors. The director or directors whose films are chosen for study varies from year to year according to the instructor's field of specialization. (3 credits) *NOTE C/See § 200.3*

FILM STUDIES C415
Seminar in Film Directors II

Prerequisite: Written permission of the Cinema Section. A student repeating Film Studies C414 register for credit under Film Studies C415. (3 credits)

FILM STUDIES C416
Seminar in Problems in Film History I

Prerequisite: Eighteen credits in Film Studies and written permission of the Cinema Section. A seminar for advanced students which provides for the study of limited and more specialized areas of film history. The areas chosen for study vary from year to year according to the instructor's field of specialization. (3 credits) *NOTE C/See § 200.3*

FILM STUDIES C417
Seminar in Problems in Film History II

Prerequisite: Written permission of the Cinema Section. A student repeating Film Studies C416 registers for credit under Film Studies C417. (3 credits)

FILM STUDIES C418
Seminar in English Canadian Film

Prerequisite: Film Studies C314 or with written permission of the Cinema Section, Communication Studies C316. A seminar in which selected aspects of English Canadian Film are examined and discussed. The areas chosen for study vary from year to year according to the instructor's field of specialization. (3 credits)

FILM STUDIES C419
Séminaire sur le cinéma québécois

Préalable: Film Studies C315 ou avec permission écrite du Cinema Section, Communication Studies C316. Un séminaire dans lequel des aspects sélectifs du cinéma québécois sont analysés et discutés. Les sujets d'étude choisis varient d'année en année selon la spécialisation de l'instructeur. (3 crédits)

FILM STUDIES C422
Seminar in Film Theory and Criticism

Prerequisite: Written permission of the Cinema Section and Film Studies C212. Theories including those of Sergei Eisenstein and André Bazin are studied both as explanations of the effects of films and as foundations for film criticism. The relation of contemporary theoretical writings, such as those in film semiology, to film criticism will be discussed. Weekly screenings. (3 credits)

FILM STUDIES C423
Seminar in Comparative Stylistic and Formal Analysis

Prerequisite: Written permission of the Cinema Section and Film Studies C422. An intensive course in the analysis of film style. Films will be examined using an analytical projector in order to discover their formal and thematic structures. The contribution of cinematographers, editors, scriptwriters, directors and performers to the development of a style will be discussed. Weekly screenings. (3 credits)

FILM STUDIES C424
Seminar in Film Narrative

Prerequisite: Written permission of the Cinema Section. An examination of conventions of film narrative from a theoretical and historical point of view. Innovations in narrative structure are discussed and consideration is given to the origin, development and transformation of narrative traditions in their cultural and aesthetic context. (3 credits)

FILM STUDIES C425
Professional Internship

Prerequisite: Second-year standing* and enrolment in the Cinema Major or Specialization in Film Studies. A Film Studies student who has been employed for not less than 500 hours within the same calendar year in film research, archival work, editing a film publication or in writing film criticism, may apply for 6 credits on the understanding that the Cinema Section must be satisfied that the work was done under the joint supervision of a qualified professional and a full-time Cinema Faculty member (6 credits). *NOTE A/See § 200.3*

** less than 66 credits remaining in degree programme.*

FILM STUDIES C426
Special Topics in Film Studies I

Prerequisite: Written permission of the Cinema Section. A course for advanced students which will provide an opportunity for the study of limited and more specialized aspects of film studies. (3 credits) *NOTE A; C/See § 200.3*

FILM STUDIES C427
Special Topics in Film Studies II

Prerequisite: Written permission of the Cinema Section. A student repeating Film Studies C426 registers for credits under Film Studies C427. (3 credits) *NOTE A/See § 200.3*

FILM STUDIES C428
Independent Study I

Prerequisite: Written permission of the Cinema Section. A course of independent study in which the student may explore a specific area of Film Studies. (3 credits)

FILM STUDIES C429
Independent Study II

Prerequisite: Written permission of the Cinema Section. A student repeating Film Studies C428 a second time registers for credits under Film Studies C429. (3 credits)

Film Animation:

NOTE: A student may register for only one course in which films are produced as a course requirement during each academic session. See § 81.7.3.

FILM ANIMATION C312
Animation I

Prerequisite: Enrolment in the Minor in Film Animation or written permission of the Cinema Section with either Film Production C231 or 6 credits in a studio art. A studio course introducing the theory and practice of film animation. (6 credits) *NOTE A/See § 200.3*

NOTE: Students are required to bear the cost of film stock, processing, printing and other materials.

FILM ANIMATION C313
Animation II

Prerequisite: Written permission of the Cinema Section and Film Animation C312. A continuation on a more advanced level of Film Animation C312. (6 credits) *NOTE A/See § 200.3*

NOTE: Students are required to bear the cost of film stock, processing, printing and other materials.

FILM ANIMATION C414
Animation III

Prerequisite: Written permission of the Cinema Section, Film Animation C312, C313 and Film Studies C323. A continuation on a more advanced level of Film Animation C313. (6 credits) *NOTE A/See § 200.3*

NOTE: Students are required to bear the cost of film stock, processing, printing and other materials.

Film Production:

NOTE: A student may register for only one course in which films are produced as a course requirement during each academic session. See § 81.7.3.

FILM PRODUCTION C231
An Introduction to Filmmaking I

Prerequisite: Written permission of the Cinema Section or enrolment in a Cinema programme and Film Studies C211 or C212 previously or concurrently. An introductory course in the theory and practice of filmmaking. This course stresses the individual student's creative efforts in producing films in Super 8. Lecture and laboratory. (6 credits) *NOTE A/See § 200.3*

NOTE: Students are required to bear the cost of the film stock, processing, printing and other materials.

FILM PRODUCTION C331
Filmmaking Studio I

Prerequisite: Written permission of the Cinema Section, enrolment in the Major in Cinema and Film Production C231. An intermediate course in the theory and practice of filmmaking emphasizing the creative possibilities available when 16 mm lip sync equipment is not used. Formats include 16 mm with wild sound, Super 8 with wild sound or with double system or single system lip sync sound, and silent 16 mm or Super 8. Students work individually or as small crews depending on the project and the format. (6 credits)

NOTE: Students are required to bear the cost of film stock, processing, printing and other materials.

FILM PRODUCTION C332
Filmmaking II

Prerequisite: Written permission of the Cinema Section, second-year standing* in the Specialization in Film Production or the Major in Cinema, Film Production C231, and Film Production C337 previously or concurrently. An intermediate course in the theory and practice of filmmaking introducing lip sync 16mm production. Topics emphasized include the creative possibilities of lip sync 16mm, the development of ideas for films and the preparation of these ideas for production, budgeting, production planning and working with a film crew. Students participate in a number of productions and assume a range of roles while beginning to develop their area of specialization within the production team. (6 credits) *NOTE A/See § 200.3*

NOTE: Students are required to bear the cost of film stock, processing, printing and other materials.

** less than 66 credits remaining in degree programme*

FILM PRODUCTION C334
Problems and Methods of Film Production and Distribution

Prerequisite: Film Production C231. Topics include organizing a film project, financial aspects of film production and distribution, legal problems, film laboratory procedures and postproduction operations. (3 credits) *NOTE A/See § 200.3*

FILM PRODUCTION C335
Acting and Directing Acting for the Screen

Prerequisite: Written permission of the Cinema Section and either Film Production C332 previously or concurrently or 6 credits in Theatre Performance. A studio course for Cinema and Theatre students which explores directing and performing for film primarily through exercises recorded on video for analysis. Both performers and directors examine acting and directing acting for the camera through such topics as role preparation, character development and performance continuity. (3 credits) *NOTE A/See § 200.3*

FILM PRODUCTION C337
Technical Aspects of Filmmaking

Prerequisite: Written permission of the Cinema Section, enrolment in the Specialization in Film Production or the Major in Cinema, and Film Production C332 concurrently. Creative and experimental exercises in cinematography, sound and other components of filmmaking. The complex technology of filmmaking is emphasized as forming a basis for the creative use of the medium. (6 credits) *NOTE A/See § 200.3*

FILM PRODUCTION C339
Montage in Filmmaking

Prerequisite: Written permission of the Cinema Section and both Film Production C332 and Film Studies C311 previously or concurrently. Fiction and nonfiction film editing emphasizing dynamic and continuity cutting and cutting room techniques. Activities include editing the image in synchronized double system, cutting music and sound effects, preparation for and supervision of the rerecording. (3 credits) *NOTE A/See § 200.3*

FILM PRODUCTION C341
Writing for Film

Prerequisite: Written permission of the Cinema Section and Film Production C231. An introduction to writing for film with special emphasis on the relation of the script to filmmaking. Students are expected to submit work of their own for discussion, analysis and possible production in filmmaking courses. (3 credits) *NOTE A/See § 200.3*

FILM PRODUCTION C431
Filmmaking Studio II

Prerequisite: Written permission of the Cinema Section, enrolment in the Major in Cinema and Film Production C331. A continuation of Film Production C331. (6 credits)

NOTE: Students are required to bear the cost of film stock, processing, printing and other materials.

FILM PRODUCTION C432
Filmmaking III

Prerequisite: Written permission of the Cinema Section, third year standing* in the Specialization in Film Production and Film Production C332. A continuation of Film Production C332 with students working on more advanced filmmaking projects. (6 credits) *NOTE A/See § 200.3*

NOTE: Students are required to bear the cost of film stock, processing, printing and other materials.

** less than 36 credits remaining in degree programme.*

FILM PRODUCTION C433
Filmmaking Workshop

Prerequisite: Written permission of the Cinema Section, third year standing* in the Major in Cinema and Film Production C332. A course in the theory and practice of filmmaking in 16mm wild sound and Super 8 formats, with some access to 16mm lip sync equipment for qualified students. The development of concepts of filmmaking introduced in Film Production C332 is continued using these formats. (6 credits)

NOTE: Students are required to bear the cost of film stock, processing, printing and other materials.

** less than 36 credits remaining in degree programme*

FILM PRODUCTION C438
Cinematography

Prerequisite: Written permission of the Cinema Section, enrolment in the Specialization in Film Production or the Major in Cinema and Film Production C337 previously or concurrently. An advanced course in camera and light for cinema. The contribution of cinematography to filmmaking is investigated through studio and location shooting exercises, lighting exercises and lectures. Subjects such as film stocks, lenses, filters and camera movement are discussed as elements in the creative process of filmmaking. (3 credits) *NOTE A/See § 200.3*

FILM PRODUCTION C439
Advanced Montage in Filmmaking

Prerequisite: Written permission of the Cinema Section and Film Production C339. A continuation of Film Production C339. (3 credits)

FILM PRODUCTION C440
Sound for Film

Prerequisite: Written permission of the Cinema Section and Film Production C337. An advanced course in sound and its use in cinema. The contribution of sound to filmmaking is investigated through studio and location recording exercises and through demonstrations. (3 credits)

FILM PRODUCTION C441
Writing for Film II

Prerequisite: Written permission of the Cinema Section and Film Production C341. A continuation of Film Production C341 on a more advanced level. (3 credits)

FILM PRODUCTION C445
Professional Internship

Prerequisite: Written permission of the Cinema Section and second year standing* in the Specialization in Film Production or the Major in Cinema. A Film Production student who has been employed within the film industry for not less than 500 hours within the same calendar year may apply for 6

credits on the understanding that the Cinema Section must be satisfied that the work was done under the joint supervision of a qualified professional and a full-time Cinema Faculty member. (6 credits) *Note A/See § 200.3*

** Less than 66 credits remaining in degree programme.*

FILM PRODUCTION C446
Special Topics in Film Production I

Prerequisite: Written permission of the Cinema Section. A course for advanced students which will provide an opportunity for the study of limited and more specialized aspects of film production. (3 credits) *NOTE A; C/See § 200.3*

FILM PRODUCTION C447
Special Topics in Film Production II

Prerequisite: Written permission of the Cinema Section. A student repeating Film Production C446 registers for credits under Film Production C447. (3 credits) *NOTE A/See § 200.3.*

FILM PRODUCTION C448
Independent Study I

Prerequisite: Written permission of the Cinema Section. A course in independent study in which the student explores a specific area of Film Production. (3 credits) *NOTE A; C/See § 200.3*

FILM PRODUCTION C449
Independent Study II

Prerequisite: Written permission of the Cinema Section. A student repeating Film Production C448 registers for credit under Film Production C449. (3 credits) *NOTE A/See § 200.3*

81.7.3 FILMMAKING

Courses in which films are produced as a course requirement are:

Film Animation C312[6], C313[6], C414[6]
Film Production C231[6], C331[6], C332[6], C431[6], C432[6], C433[6]

81.7.4 COMMUNICATION STUDIES FILM COURSES*

(for course descriptions see § 31.10)

Students enrolled in the Specialization in Film Studies, the Specialization in Film Production or the Major in Cinema may select 12 credits from the Communication Studies courses listed below as part of their required Film Studies elective credits.

Cinema Minors may select 6 credits from the Communication Studies courses listed below as part of the 18 Cinema credits required in addition to Film Studies C211 and C212. These credits must be considered as Film Studies elective credits for degree purposes.

COMMUNICATION STUDIES C306[3]
Documentary Film

COMMUNICATION STUDIES C307[3]
Hollywood in the Silent Era

COMMUNICATION STUDIES C308[3]
The German Expressionist Movement

COMMUNICATION STUDIES C309[3]
The Revolutionary Soviet Cinema

COMMUNICATION STUDIES C310[3]
The Hollywood Genres

COMMUNICATION STUDIES C311[3]
The Classic French Cinema

COMMUNICATION STUDIES C312[3]
La Nouvelle Vague

COMMUNICATION STUDIES C313[3]
Ingmar Bergman and the Scandinavians

COMMUNICATION STUDIES C314[3]
The Italians, from Neo-Realism to Today

COMMUNICATION STUDIES C315[3]
Shakespeare in the Cinema

COMMUNICATION STUDIES C316[3]
The Canadian Cinema

**Communication Studies credits do not fulfill the BFA degree requirement which states that 18 credits must be outside the Faculty of Fine Arts and 6 credits must be outside their area of concentration.*

Division of Performing Arts

Director of the Division of Performing Arts
S. FRIEDLAND

81.8 DANCE

81.9 MUSIC

81.10 THEATRE ARTS

81.8 Dance

Assistant Professor and Co-ordinator of Dance, Performing Arts
E. LANGLEY

81.8.1 PROGRAMME

Students are responsible for satisfying their particular degree requirements, hence the following sequence must be read in conjunction with § 81.3.

The superscript indicates credit value.

54 BFA Major in Modern Dance

12 Chosen from Dance C200[6], C300[6], C400[6]
12 Chosen from Dance C210[6], C310[6], C410[6]
18 Dance C211[3], C212[3], C320[6], C420[6]
3 Design C202[3]
3 Theatre Performance C201[3]
6 Music C221[3], C222[3]

60 BFA Major in Fine Arts*

0-24 Art History Section: Art History elective credits**
0-24 Cinema Section: Cinema elective credits chosen from Film Studies C200[6], C211[6], C212[6], C311[3], C312[3], C313[3], C314[3], C315[3], C318[3], C321[6], C322[6], C323[3], C324[3], C326[3], C327[3], C328[3], C329[3], C411[3], C413[3], C414[3], C415[3], C416[3], C417[3], C418[3], C419[3], C422[3], C423[3], C424[3], C425[3], C427[3], Film Animation C312[6], Film Production C231[6]
0-24 Dance Section: Dance elective credits chosen in consultation with the Dance co-ordinator
0-24 Music Section: Music elective credits chosen in consultation with a programme adviser, Music
0-24 Studio Art Section: Studio Art elective credits**
0-24 Theatre Arts (Drama) Section: Theatre Arts elective credits chosen in consultation with a programme adviser, Theatre Arts

** Credits must be taken in a minimum of 3 fields of concentration with a maximum of 24 credits in any field.*

*** Art C460 may be substituted for 6 credits in Studio Art or Art History.*

81.8.2 COURSE DESCRIPTIONS

DANCE C200
Workshop in Dance I
Prerequisite: Enrolment in Major in Modern Dance or written permission of the Coordinator of Dance. Studies in dance emphasizing the expressive possibilities of movement. Styles of dance are introduced and projects for performance are explored with consideration being given to the role of visual, acoustic and verbal elements in dance. (6 credits)

DANCE C210
Body Movement I
Prerequisite: Dance C200, previously or concurrently. Enrolment in Major in Modern Dance or written permission of the Coordinator of Dance. The development of suppleness, strength, coordination and kinetic awareness is emphasized. Body movement is discussed and developed as preparation for dance. (6 credits)

DANCE C211
Dance Traditions I
A survey of the history of dance including relations between older dance traditions and styles of modern dance. (3 credits)

DANCE C212
Dance Traditions II
Prerequisite: Dance C211. A continuation of C211. (3 credits)

DANCE C300
Workshop in Dance II
Prerequisite: Dance C200. Enrolment in Major in Modern Dance or written permission of the Coordinator of Dance. A continuation of Dance C200. (6 credits)

DANCE C310
Body Movement II
Prerequisite: Dance C300, previously or concurrently. Enrolment in Major in Modern Dance or written permission of the Coordinator of Dance. A continuation of Dance C210. (6 credits)

DANCE C320
Choreography I
Prerequisite: Dance C300, previously or concurrently and written permission of the Coordinator of Dance. The organization of movement, space and time into dance performances. The process of choreographic creation is followed through stages of originating the idea, developing the theme, rehearsing and performing. Student works are performed. (6 credits)

DANCE C400
Workshop in Dance III
Prerequisite: Dance C300. Enrolment in Major in Modern Dance or written permission of the Coordinator of Dance. A continuation of Dance C300. (6 credits)

DANCE C410
Body Movement III

Prerequisite: Dance C400, previously or concurrently. Enrolment in Major in Modern Dance or written permission of the Coordinator of Dance. A continuation of Dance C310. (6 credits)

DANCE C420
Choreography II

Prerequisite: Dance C320. Enrolment in Major in Modern Dance and written permission of the Coordinator of Dance. A continuation of Dance C320. (6 credits)

81.9 Music

Associate Professor and Assistant Director Performing Arts, Music
S. FRIEDLAND

Professor
B. LAGACE

Associate Professor
P. COHEN

Assistant Professors
W. BOTTENBERG
A. CROSSMAN
D. WALTER

Lecturers
K. AUSTIN
A. BELKIN
A. HOMZY
C. JACKSON

81.9.1 PROGRAMMES

Students are responsible for fulfilling their particular degree requirements, hence the following sequences must be read in conjunction with § 81.3.

The superscript indicates credit value.

SPECIALIZATION IN MUSIC

The Faculty of Fine Arts offers four specialization programmes in Music which consist of 66 credits each.

CORE REQUIREMENTS

The required 27-30 credit core is identical for all four specializations in Music and comprises the following courses.

3-6 Music C230^{6}, C231^{3}
6* Integrative Music Studies C200^{6}
6 Integrative Music Studies C310^{6}
6 Music History C200^{6} or, if exempt, 6 credits in World Music selected in consultation with the Music Adviser
6 Music History C301^{3}, C302^{3}, C303^{3}, C304^{3}, C305^{3}, C401^{3}, C402^{3}

** With permission of the Music Adviser students may substitute Integrative Music Studies C300^{6}.*

NOTE: The student is responsible for following the courses required for the completion of his/her particular specialization.

66 Specialization in Music Performance Studies

27-30 Core
6-9 Music C330^{6}, C331^{3}, C431^{3}
12 Music Performance Studies C311^{3}, C312^{3}, C321^{3}, C322^{3}, C411^{3}, C412^{3}, C421^{3}, C422^{3}
0-6 Music Performance Studies C431^{3}, C432^{3}
6 Integrative Music Studies C410^{6}
6-15 Music electives selected in consultation with the Music Adviser

66 Specialization in Music Theory/ Composition

27-30 Core
6 Integrative Music Studies C300^{6}
6-12 Integrative Music Studies C401^{3}, C402^{3}, Contemporary Music Studies C411^{3}, C412^{3}
6 Integrative Music Studies C321^{3}, C322^{3}, C331^{3}, C332^{3}
12-21 Music electives selected in consultation with the Music Adviser

66 BFA Specialization in Selected Music Studies

27-30 Core
30-33 Music electives in Specialization selected in consultation with programme adviser
3-6 Music C491^{3}, C492^{3}

Courses in the Specialization may include the investigation of areas not normally combined in the music curriculum, including musical perception, theory, composition, pedagogy, literature and performance.

Eligibility: Completion of core with B average or better.

Entrance: Submission and approval of plan of course work and Special Project. (Music C491)

Performance Requirements: 1) B grade average in specialization.
2) B average in programme.
3) C average outside programme.

Review: Upon completion of the courses in this Specialization, the Special Project shall be graded by the appropriate Review Committee. The type of evaluation used will depend upon the nature of the project: exhibition, concert, recording or essay.

66 Specialization in Studio Music

27-30 Core
6 Contemporary Music Studies C300^{6}
12-18 Contemporary Music Studies C401^{3}, C402^{3}, C411^{3}, C412^{3}, Integrative Music Studies C331^{3}, C332^{3}
12-21 Music electives selected in consultation with the Music Adviser

54 BFA Major in Integrative Music Studies

6 Music C221[3], C222[3] or, if exempt, music electives chosen in consultation with the programme adviser, Music
3-6 Music C230[6], C231[3]
12 Integrative Music Studies C200[6],* C310[6]
6 Music History C200[6] or, if exempt, World Music elective chosen in consultation with the programme adviser, Music
6 Music History C301[3], C302[3], C303[3], C304[3], C305[3], C401[3], C402[3].
18-21 Music electives selected in consultation with the Music Section

** With permission of the Music Section students may substitute Integrative Music Studies C300[6].*

60 BFA Major in Fine Arts*

0-24 Art History Section: Art History elective credits**
0-24 Cinema Section: Cinema elective credits chosen from Film Studies C200[6], C211[6], C212[6], C311[3], C312[3], C313[3], C314[3], C315[3], C318[3], C321[6], C322[6], C323[3], C324[3], C326[3], C327[3], C328[3], C329[3], C411[3], C413[3], C414[3], C415[3], C416[3], C417[3], C418[3], C419[3], C422[3], C423[3], C424[3], C425[3], C427[3], Film Animation C312[6], Film Production C231[6]
0-24 Dance Section: Dance elective credits chosen in consultation with the Dance co-ordinator
0-24 Music Section: Music elective credits chosen in consultation with a programme adviser, Music
0-24 Studio Art Section: Studio Art elective credits**
0-24 Theatre Arts (Drama) Section: Theatre Arts elective credits chosen in consultation with a programme adviser, Theatre Arts

** Credits must be taken in a minimum of 3 fields of concentration with a maximum of 24 credits in any field.*

*** Art C460 may be substituted for 6 credits in Studio Art or Art History.*

30 Minor in Music

6 Music C221[3], C222[3] or, if exempt, music electives chosen in consultation with the programme adviser, Music
6 Integrative Music Studies C200[6]
18 Music electives chosen in consultation with the programme adviser, Music

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81.9.2 COURSE DESCRIPTIONS

Music:

MUSIC C221
Theory/Aural Training I
A review of the fundamentals of music theory and aural training. Workshop and laboratory. (3 credits) *NOTE A/See § 200.3*

MUSIC C222
Theory/Aural Training II
Prerequisite: Music C221 or equivalent. Continuation of Music C221. (3 credits) *NOTE A/See § 200.3*

MUSIC C223
Understanding Music
A course in analytical listening for the student who has little or no musical background. The works studied represent the major styles and idioms of Western music. (3 credits) *NOTE A/See § 200.3*

MUSIC C230
Private Study B1
Prerequisite: Written permission of the Music Section. This course offers individual vocal or instrumental instruction in an approved area of music coordinated with the student's programme. Fees may vary with individual instructors. (6 credits) *NOTE A/See § 200.3*

MUSIC C231
Private Study A1
Prerequisite: Written permission of the Music Section. This course offers individual vocal or instrumental instruction in an approved area of music coordinated with the student's programme. Fees may vary with individual instructors. (3 credits)

MUSIC C330
Private Study B II
Prerequisite: Music C230 and written permission of the Music Section. Continuation of Music C230. (6 credits) *NOTE A/See § 200.3*

MUSIC C331
Private Study A II
Prerequisite: Music C231 and written permission of the Music Section. Continuation of Music C231. (3 credits)

MUSIC C430
Private Study B III
Prerequisite: Music C330 and written permission of the Music Section. Continuation of Music C330. (6 credits) *NOTE A/See § 200.3*

MUSIC C431
Private Study A III
Prerequisite: Music C331 and written permission of the Music Section. Continuation of Music C331. (3 credits)

MUSIC C471
Independent Study
Prerequisite: Written permission of the Music Section. An independent study intended primarily for the student who wishes to study in an area of his own choice. He may alternatively elect to compose a large scale work or perform an approved programme in public recital. Music Faculty are available for consultation. (3 credits) *NOTE C/See § 200.3*

MUSIC C472
Independent Study
Prerequisite: Written permission of the Music Section. Continuation of Music C471. (3 credits)

MUSIC C491
Special Project in Music
Prerequisite: Written permission of the Music Section. This course is intended for students enrolled in the Specialization in Selected Music Studies. It affords an opportunity for extensive development of the final project under the direction of a Faculty member. The content of this course varies according to the particular area being studied. A student repeating Music C491 registers under Music C492 for credit. (3 credits)

MUSIC C492
Special Project in Music
Prerequisite: Music C491 and written permission of the Music Section. Continuation of Music C491. (3 credits)

Contemporary Music Studies:

CONTEMPORARY MUSIC STUDIES C300
Studio Music I
Prerequisite: Written permission of the Music Section. A workshop programme in selected Jazz, Rock, Popular and related styles. The study includes ensemble playing, improvisation, score reading, jazz theory and arranging. Practice period/conference. (6 credits) *NOTE A/See § 200.3*

CONTEMPORARY MUSIC STUDIES C401
Studio Music II
Prerequisite: Contemporary Music Studies C300 or written permission of the Music Section. An intensive study of selected problems in the development of studio musicianship. The areas covered are determined by specific class needs. Practice period/conference. (3 credits) *NOTE A/See § 200.3*

CONTEMPORARY MUSIC STUDIES C402
Studio Music III
Prerequisite: Contemporary Music Studies C401 or written permission of the Music Section. Continuation of Contemporary Music Studies C401. (3 credits) *NOTE A/See § 200.3*

CONTEMPORARY MUSIC STUDIES C411
Seminar-Workshop in Composition I
Prerequisite: Written permission of the Music Section. A seminar-workshop in one or more of the following: free composition; music for film, T.V., stage or mixed media; jazz, electronic, computer, aleatory, "brain" and experimental musics. Whenever possible, provisions are made for public performance of student works. (3 credits) *NOTE A/See § 200.3*

CONTEMPORARY MUSIC STUDIES C412
Seminar-Workshop in Composition II
Prerequisite: Contemporary Music Studies C411. Continuation of Contemporary Music Studies C411. (3 credits) *NOTE A/See § 200.3*

CONTEMPORARY MUSIC STUDIES C413
Seminar-Workshop in Composition III
Prerequisite: Contemporary Music Studies C412. Continuation of Contemporary Music Studies C412. (3 credits) *NOTE A/See § 200.3*

CONTEMPORARY MUSIC STUDIES C414
Seminar-Workshop in Composition IV
Prerequisite: Contemporary Music Studies C413. Continuation of Contemporary Music Studies C413. (3 credits) *NOTE A/See § 200.3*

Integrative Music Studies:

INTEGRATIVE MUSIC STUDIES C200
Theory/Composition/Analysis I
Prerequisite: Music C222 or Music C222 exemption. A workshop in theory, composition, analysis and related areas. The course explores one or more traditional, contemporary or experimental approaches to the organization and uses of sound materials. Classroom and laboratory. (6 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C300
Theory/Composition II
Prerequisite: Integrative Music Studies C200 or equivalent. A study that coordinates exercises in part-writing and harmony with composition. Students work in a variety of traditional and contemporary forms, styles and media. Classroom and laboratory. (6 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C310
Aural Perception: Analytical Hearing I
Prerequisite: Written permission of the Music Section. Hearing skills are developed through exercises in aural concentration, recall, reproduction, imagination, analysis and transcription. The sound materials used range from traditional to electronic, natural and mechanical. Classroom and laboratory. (6 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C321
Comparative Analysis I
Prerequisite: Twelve credits in Music or written permission of the Music Section. A comparative study of selected works representing various forms, styles and historical periods. (3 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C322
Comparative Analysis II
Prerequisite: Integrative Music Studies C321. Continuation of Integrative Music Studies C321. (3 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C331
Instrumentation/Arranging I
Prerequisite: Written permission of the Music Section. A study of the capabilities and uses of instruments in a variety of musical situations ranging from small ensembles to full orchestra. The areas covered are determined by class needs. Workshop and laboratory. (3 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C332
Instrumentation/Arranging II
Prerequisite: Integrative Music Studies C331. Continuation of Integrative Music Studies C331. (3 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C401
Theory/Composition III
Prerequisite: Integrative Music Studies C300 or written permission of the Music Section. A continuation of Integrative Music

Studies C300 at a more advanced level. While the study emphasizes contemporary writing techniques, it includes close work in traditional harmony and counterpoint. Classroom and laboratory. (3 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C402
Theory/Composition IV
Prerequisite: Integrative Music Studies C401 or written permission of the Music Section. Continuation of Integrative Music Studies C401. (3 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C410
Aural Perception: Analytical Hearing II
Prerequisite: Integrative Music Studies C310 or written permission of the Music Section. An intensive study of selected problems in hearing, analyzing and transcribing music. The course combines individual and group exercises with structural analysis. Areas to be covered are determined by specific class needs. (6 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C421
Comparative Analysis III
Prerequisite: Integrative Music Studies C322. Continuation of Integrative Music Studies C322. (3 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C422
Comparative Analysis IV
Prerequisite: Integrative Music Studies C421. Continuation of Integrative Music Studies C421. (3 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C431
Instrumentation/Arranging III
Prerequisite: Integrative Music Studies C332. Continuation of Integrative Music Studies C332. (3 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C432
Instrumentation/Arranging IV
Prerequisite: Integrative Music Studies C431. Continuation of Integrative Music Studies C431. (3 credits) *NOTE A/See § 200.3*

INTEGRATIVE MUSIC STUDIES C440
Aural Perception: Analytical Hearing III
Prerequisite: Integrative Music Studies C410 or written permission of the Music Section. Continuation of Integrative Music Studies C410. (6 credits) *NOTE A/See § 200.3*

Music History:

MUSIC HISTORY C200
Music History and Society
A survey of musical styles in their social context, from pre-history to the present day. While emphasis is on the mainstream of the western tradition, attention is also given to folk, popular and jazz styles, as well as the music of other cultures. (6 credits) *NOTE A/See § 200.3*

MUSIC HISTORY C301
Medieval/Renaissance Music
Prerequisite: Music History C200 and Integrative Music Studies C200 or written permission of the Music Section. Representative works from the Medieval and Renaissance periods. Styles and performance practices are examined in the light of the historical forces that helped shape the course of Western Music. (3 credits)

MUSIC HISTORY C302
Music of the Baroque
Prerequisite: Music History C200 and Integrative Music Studies C200 or written permission of the Music Section. Representative works from the early 17th to the mid-18th century. The evolution of "common practice" is traced in the forms, styles and performance practices of the great masters and schools. (3 credits)

MUSIC HISTORY C303
Classical History
Prerequisite: Music History C200 and Integrative Music Studies C200 or written permission of the Music Section. Representative works from the age of Haydn, Mozart and Beethoven. Styles, forms and performance practices are examined within the context of 18th century social and cultural developments. (3 credits)

MUSIC HISTORY C304
Romanticism in Music
Prerequisite: Music History C200 and Integrative Music Studies C200 or written permission of the Music Section. Representative works from the late 18th to early 20th century. Styles and performance practices are studied as expressions of the romantic consciousness. (3 credits)

MUSIC HISTORY C305
Music in the Twentieth Century
Prerequisite: Music History C200 and Integrative Music Studies C200 or written permission of the Music Section. A selected area or movement in 20th century music. In a given semester the topic for consideration may include the work of a major composer, a national school, contemporary classicism, serialism, jazz, folk, popular, electronic, aleatory or experimental music. (3 credits).

MUSIC HISTORY C401
Special Study in Music History I
Prerequisite: 12 credits in Music and written permission of the Music Section. A study of a selected period, area or contribution. In a given year, the study may examine any significant aspect of Western, non-Western or other musics. (3 credits) *NOTE A/See § 200.3*

MUSIC HISTORY C402
Special Study in Music History II
Prerequisite: Music History C401. Continuation of Music History C401. (3 credits) *NOTE A/See § 200.3*

Music in Education:

MUSIC IN EDUCATION C301
Music for Classroom Use I
Prerequisite: Enrolment in the Specialization in Early Childhood Education, Major in Child Studies or written permission of the Music Section. This course is designed to give the student a working knowledge of contemporary techniques of group instruction in music. At least one established or experimental method is covered in some

depth; for example, Orff, Kodaly, Dalcroze, Martentot, Schafer, Dennis. While the main emphasis is on the cultivation of musicality in the pre-school and elementary school child, the implications for music education in general are also explored. Classroom work includes opportunities for demonstration and practice teaching. (3 credits) *NOTE A/See § 200.3*

MUSIC IN EDUCATION C302
Music for Classroom Use II

Prerequisite: Music in Education C301 and written permission of the Music Section. A continuation of Music in Education C301. (3 credits) *NOTE A/See § 200.3*

MUSIC IN EDUCATION C430
Studies in Music in Education

Prerequisite: Written permission of the Music Section. A study of selected problems in music education. (6 credits)

MUSIC IN EDUCATION C431
Seminar-Workshop in Music Education I

Prerequisite: Written permission of the Music Section. A study of selected problems in the musical education of the child. Among the areas considered are the music curriculum, music and the other arts, concepts of musicality, musical thinking, the education of the musically gifted child, and the musical environment in home and school. Discussion is combined with workshop demonstrations. (3 credits) *NOTE A/See § 200.3*

MUSIC IN EDUCATION C432
Seminar-Workshop in Music Education II

Prerequisite: Music in Education C431. Continuation of Music in Education C431. (3 credits) *NOTE A/See § 200.3*

MUSIC IN EDUCATION C440
Studies in Music in Education

A student repeating Studies in Music in Education a second time registers for credit under Music in Education C440. (6 credits)

Music Performance Studies:

MUSIC PERFORMANCE C200
Orchestra I

Prerequisite: Written permission of the Music Section. Students enrolled in this course participate in the Faculty orchestra or in other approved orchestra groups. (6 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C201
Orchestra I J

Prerequisite: Written permission of the Music Section. Students enrolled in this course participate in the Faculty orchestra or in other approved orchestra groups. (3 credits)

MUSIC PERFORMANCE STUDIES C220
Choir I

Prerequisite: Written permission of the Music Section. Students enrolled in this course participate in the Faculty choir or in other approved choral groups. (6 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C221
Choir I J

Prerequisite: Written permission of the Music Section. Students enrolled in this course participate in the Faculty choir or in other approved choral groups. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C300
Orchestra II

Prerequisite: Music Performance Studies C200, or C201 and written permission of the Section. Continuation of Music Performance Studies C200. (6 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C311
Early Music Ensemble I

Prerequisite: Written permission of the Section. A study, through performance, of representative vocal and instrumental works from the middle ages to the early baroque. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C312
Early Music Ensemble II

Prerequisite: Music Performance Studies C311. Continuation of Music Performance Studies C311. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C320
Choir II

Prerequisite: Music Performance Studies C220, or C221 and written permission of the Section. Continuation of Music Performance Studies C220. (6 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C321
Traditional/Contemporary Ensemble I

Prerequisite: Written permission of the Section. A study, through performance, of selected works from the traditional and contemporary repertoires. The works studied are determined by class needs and the particular skills of each student. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C322
Traditional/Contemporary Ensemble II

Prerequisite: Written permission of the Section. Continuation of Music Performance Studies C321. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C400
Orchestra III

Prerequisite: Music Performance Studies C300. Continuation of Music Performance Studies C300. (6 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C411
Early Music Ensemble III

Prerequisite: Music Performance Studies C312. Continuation of Music Performance Studies C312. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C412
Early Music Ensemble IV

Prerequisite: Music Performance Studies C411. Continuation of Music Performance Studies C411. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C420
Choir III

Prerequisite: Music Performance Studies C320. Continuation of Music Performance Studies C320. (6 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C421
Advanced Repertoire I

Prerequisite: Written permission of the Music Section. An intensive study of selected works from the repertoire. Particular consideration is given to acquiring proficiency in conducting, balance, style, interpretation and related dimensions of higher technique. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C422
Advanced Repertoire II

Prerequisite: Written permission of the Music Section. Continuation of Music Performance Studies C421. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C431
Seminar-Workshop in Performance I

Prerequisite: Written permission of the Music Section. This course examines selected problems in the development of performance skills. The areas covered are, whenever possible, determined by the specific interests of students. Topics, in any given year, may include: technique; practice; style; interpretation; accompaniment; ensemble; teaching children; the adult student. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C432
Seminar Workshop in Performance II

Prerequisite: Music Performance Studies C431 previously or concurrently. Topics will vary between sections and also from year to year. Continuation of Music Performance Studies C431. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C433
Seminar Workshop in Performance III

Prerequisite: Music Performance Studies C432 previously or concurrently. Topics will vary between sections and also from year to year. Continuation of Music Performance Studies C432. (3 credits) *NOTE A/See § 200.3*

MUSIC PERFORMANCE STUDIES C434
Seminar-Workshop in Performance IV

Prerequisite: Music Performance Studies C433 previously or concurrently. Topics will vary between sections and also from year to year. Continuation of Music Performance Studies C433. (3 credits) *NOTE A/See § 200.3*

World Music:

WORLD MUSIC C300
Folk Music of the Americas

Prerequisite: Written permission of the Music Section. A survey of the roots and development of traditional music in the New World. The study examines aboriginal as well as transplanted and hybrid styles; urban and rural musics with special attention to European and African antecedents; the relationship of folk musics to popular and cultivated styles; transcription and arrangement, ethnomusicological method. (6 credits) *NOTE A/See § 200.3*

WORLD MUSIC C310
Music in the Non-Western World

Prerequisite: Written permission of the Music Section. A survey of the art, religious and folk music of non-European cultures. The study includes an examination of cross-cultural parallels and influences, instruments, notations, textures, techniques of performance and problems of interpretation. Illustrated with recordings and slides (6 credits) *NOTE A/See § 200.3*

WORLD MUSIC C320
Folk and Traditional Music I

Prerequisite: Written permission of the Music Section. The music of a selected culture or community. While in a given year the study may consider the music of any world culture, particular attention will be given to the musical heritage of ethnic minorities residing in Canada. (6 credits) *NOTE A/See § 200.3*

WORLD MUSIC C330
Folk and Traditional Music II

Prerequisite: Written permission of the Music Section. Continuation of World Music C320. (6 credits) *NOTE A/See § 200.3*

WORLD MUSIC C340
Folk and Traditional Music III

Prerequisite: Written permission of the Music Section. Continuation of World Music C330. (6 credits) *NOTE A/See § 200.3*

81.10 Theatre Arts

Assistant Professor and Assistant Director Performing Arts, Theatre Arts
W. REZNICEK

Professor
N. SPRINGFORD

Associate Professors
J. CAZALET
G. GROSS
P. SPENSLEY

Assistant Professors
R. ALLISON
D. HOFFMAN
B. MACKAY
K. SLOAN

Lecturer
T. GAUB

81.10.1 PROGRAMMES

Students are responsible for fulfilling their particular degree requirements, hence the following sequence must be read in conjunction with § 81.3.

The superscript indicates credit value.

Specializations: Students may apply upon satisfactory completion of one year in a Theatre Arts or Pre-Fine Arts programme including courses in their area of proposed specialization.

66 BFA Specialization in Drama in Education

33 Theatre C200[6], C300[6], Drama in Education C200[6], C300[6], C400[6] or C410[6], Scenography C201[3]
6 Theatre Performance elective credits
9 Production C200[6] and another 3 credits in Production
18 Theatre Arts elective credits

60 BFA Specialization in Theatre Performance

12 Theatre C200[6], Theatre C300[6]
12 Chosen from Production C200[6], C300[6], C301[3], C401[3]
36 Theatre Performance elective credits selected in consultation with the programme adviser, Theatre Performance

60 BFA Specialization in Theatre Scenography

12 Theatre C200[6], C300[6]
18 Theatre Production C200[6], C300[6], C400[6]
30 Theatre Scenography elective credits chosen in consultation with the programme adviser, Theatre Scenography

54 BFA Major in Drama*

18 Theatre C200[6], C300[6], C400[6]
6 Chosen from Production C200[6], C201[3], C301[3], C304[3], C305[3]
6 Theatre Performance elective credits
6 Theatre Scenography elective credits
18 Theatre Arts elective credits chosen in consultation with the programme adviser, Theatre Arts.

** No more than 36 credits in Theatre Arts courses at the 200 level may be applied toward the Major.*

60 BFA Major in Fine Arts*

0-24 Art History Section: Art History elective credits**
0-24 Cinema Section: Cinema elective credits chosen from Film Studies C200[6], C211[6], C212[6], C311[3], C312[3], C313[3], C314[3], C315[3], C318[3], C321[6], C322[6], C323[3], C324[3], C326[3], C327[3], C328[3], C329[3], C411[3], C413[3], C414[3], C415[3], C416[3], C417[3], C418[3], C419[3], C422[3], C423[3], C424[3], C425[3], C427[3]. Film Animation C312[6], Film Production C231[6]
0-24 Dance Section: Dance elective credits chosen in consultation with the Dance co-ordinator
0-24 Music Section: Music elective credits chosen in consultation with a programme adviser, Music
0-24 Studio Art Section: Studio Art elective credits**
0-24 Theatre Arts (Drama) Section: Theatre Arts elective credits chosen in consultation with a programme adviser, Theatre Arts

** Credits must be taken in a minimum of 3 fields of concentration with a maximum of 24 credits in any field.*

*** Art C460 may be substituted for 6 credits in Studio Art or Art History.*

30 Minor in Theatre

12 Theatre C200[6], C300[6]
6 Drama in Education, Theatre Performance and/or Theatre Scenography electives chosen in consultation with the programme adviser, Theatre Arts
12 Theatre Arts electives chosen in consultation with the programme adviser, Theatre Arts

81.10.2 CERTIFICATE IN CREATIVE DRAMA AND THEATRE ARTS

The Performing Arts Division offers a Certificate in Creative Drama and Theatre Arts (with Elementary and Secondary options) for the professional development of teachers. The programmes are designed in accordance with the guidelines of the Quebec Ministry of Education. The courses concern both practice and theory and are conducted as workshops and seminars. By recognizing the general educational utility of creative drama and, where appropriate, its many applications to the study of theatre arts, the overall programme integrates the study of these two fields. Pattern B (Elementary) concentrates more on creative drama than does Pattern A (Secondary) in which the focus is shifted somewhat towards Theatre Arts.

Admission Requirements

Entry into the programme requires the candidate to be legally qualified to teach or be engaged in teaching.

In some cases, where teachers have completed studies similar to those of this programme, the Faculty of Fine Arts may also allow pro tanto credits up to a maximum of 12. These courses must not have been applied to a previous degree or certificate.

30 Certificate in Creative Drama and Theatre Arts
Secondary — Pattern A

12	Drama in Education C200[6], C400[6]
3	Drama in Education C402[3] (supervised internship)
6	Theatre Performance C201[3], C202[3], C203[3], C204[3]
3	Scenography C201[3]
6	Theatre Arts electives

30 Certificate in Creative Drama and Theatre Arts
Elementary — Pattern B

18	Drama in Education C200[6], C300[6], C400[6]
3	Drama in Education C401[3] (supervised internship)
6	Theatre Performance C201[3], C202[3], C203[3], C204[3]
3	Theatre Arts elective

81.10.3 COURSE DESCRIPTIONS

Theatre:

THEATRE C200
Theatre Principles and Practices

A study of the aesthetics, organization and functions of the theatre as a collaborative art. This course includes attendance at theatre performances.* (6 credits) *NOTE A/See § 200.3*

** The Theatre Arts Section endeavours to secure tickets at the lowest prices available to students.*

THEATRE C300
Theatre History

A study of the development of the physical stage and representative theoretical and dramatic works within their social context from pre-history to the present. (6 credits) *NOTE A/See § 200.3*

THEATRE C301
Canadian Theatre

The development of theatre in Canada and the study of selected Canadian plays in text and in performance. Topics include amateur and professional theatre, the emergence of theatre programmes in schools and universities; regionalism; the cultural boom of the Sixties and the development of such institutions as festivals, arts councils and national and local theatre organizations. (3 credits) *NOTE A/See § 200.3*

THEATRE C320
Theatre Administration

Prerequisite: Written permission of the Section. A course in theatre administration: office and plant management, finance and budget, insurance, contracts, programme planning, public relations and touring. Lectures and case studies. (6 credits) *NOTE A/See § 200.3*

THEATRE C400
Theatre Production Research

Prerequisite: THEA C300 or written permission of the Section. A study of research processes used by directors, designers, actors, theatre critics and teachers through discussion of individual projects. Skills are developed and applied to the investigation of social, political and artistic aspects of historical periods providing a rich approach to practical theatre production including works actually in progress. (6 credits)

THEATRE C401
Quebec Theatre

Students should have a working knowledge of French. A study of selected plays of Quebec writers within their cultural milieu. Attendance at French and English language performances is required. Guest speakers involved in Quebec theatre are invited to supplement lectures. (3 credits) *NOTE A/See § 200.3*

THEATRE C402
Playwriting Workshop

Prerequisite: Written permission of the Section. Study of existing methods of playwriting in relation to stage production. Emphasis is on the creative work of the student guided by the criticism of the class and the instructor in the processes of stage realization. Promising scripts may receive workshop production. (3 credits) *NOTE A/See § 200.3*

THEATRE C403
Advanced Practicuum

Prerequisite: Written permission of the Section. Special studies in acting, directing, playwriting, design, technical production, or other related areas. (3 credits) *NOTE A,-C/See § 200.3*

THEATRE C404
Seminar in Theatre
Prerequisite: Written permission of the Section. Research in one phase of theatre. A specific topic is chosen each year from such areas as the history of acting, directing, or design aspects of theatre practice or theatre history. (3 credits) *NOTE A,C/See § 200.3*

THEATRE C405
Independent Study I
Prerequisite: Written permission of the Section. Credit granted for independent projects supervised by a faculty member. Students are required to submit a paper based on their investigation. (3 credits)

THEATRE C413
Advanced Practicuum
Prerequisite: Written permission of the Section. Continuation of Theatre C403. A student who has completed Theatre C403 registers under Theatre C413 for further credit. (3 credits)

THEATRE C414
Seminar in Theatre
Prerequisite: Written permission of the Section. Continuation of Theatre C404. A student who has completed Theatre C404 registers under Theatre C414 for further credit. (3 credits)

THEATRE C415
Independent Study II
Prerequisite: THEA C405 and written permission of the Section. Continuation of THEA C405. Students who have taken Theatre C405 register for Theatre C415 for additional credits. (3 credits)

Drama in Education:

DRAMA IN EDUCATION C200
Creative Drama I
The foundations of creative drama. The course deals with the theory and practice of the development of forms of imaginative expression. Opportunities are provided for practical exercises in sense awareness, spontaneous divergent thinking and improvised play as well as for the discussion of group dynamics, creative processes and to teaching methods for students from pre-kindergarten through secondary school. (6 credits) *NOTE A/See § 200.3*

DRAMA IN EDUCATION C201
Drama in Early Childhood Education
Prerequisite: Enrolment in the Specialization in Early Childhood Education or the Major in Child Studies. The course focuses on the development of the participants' fluency and flexibility in imaginative expression, on theories about the nature and value of dramatic play, on the implementation of drama curricula for young children. Content includes sensory stimulation, imitative role play, make-believe with objects and actions, spontaneous improvisation. (3 credits)

DRAMA IN EDUCATION C202
Stories for Children
Prerequisite: Drama in Education C200 or Drama in Education C201 or 6 credits in Theatre Performance. The course focuses on the development of the participants' skills in reading and telling stories, on the creation and evaluation of new stories, on methods of using children's literature as a basis for dramatic play. (3 credits)

DRAMA IN EDUCATION C300
Creative Drama II
Prerequisite: Drama in Education C200 or written permission of the Section. Creative drama activities in the integration of music, art and drama forms. Students explore innovative methods of using audio and visual materials in the classroom. One assignment requires the planning of a classroom activity in which several media are used to foster learning by means of dramatic expression. (6 credits)

DRAMA IN EDUCATION C400
Creative Drama III
Prerequisite: Drama in Education C300 or written permission of the Section. An examination of the objectives and content of the drama curriculum including a study of methods of teaching and assessment appropriate to the discipline. Specific topics include collective creation by the use of creative drama techniques and the function, management and selection of the school play. (6 credits) *NOTE A/See § 200.3*

DRAMA IN EDUCATION C401
Supervised Internship — Elementary level
Prerequisite: Drama in Education C400. Based on the curriculum design project in Drama in Education C400, students teach a curriculum unit which uses drama methods in an elementary setting. The students are supervised and their teaching performance is evaluated on selected criteria related to teaching competence and professional behaviour. (3 credits)

DRAMA IN EDUCATION C402
Supervised Internship — Secondary level
Prerequisite: Drama in Education C400. Based on the curriculum design project in Drama in Education C400, students teach a curriculum unit in creative drama or theatre arts at the secondary level. The students are supervised and their teaching performance is evaluated on selected criteria related to teaching competence and professional behaviour. (3 credits)

DRAMA IN EDUCATION C410
Children's Theatre
Prerequisite: Written permission of the Section. Theories of stage presentation for the child audience. Study of scripts, performance techniques, special conditions and responsibilities. (6 credits)

DRAMA IN EDUCATION C421
Special Topics in Drama in Education I
Prerequisite: Written permission of the Section. A course which provides opportunity for the study of specialized aspects of Drama in Education. (3 credits) *NOTE C/See § 200.3*

DRAMA IN EDUCATION C422
Special Topics in Drama in Education II
Prerequisite: Written permission of the Section. A student repeating DINE C421 registers under DINE C422 for credit. (3 credits)

Production:

PRODUCTION C200
Theatre Production B1

Prerequisite: Enrolment in a major, minor, or specialization in Theatre Arts or written permission of the Section. All students complete a variety of assigned tasks in technical production and/or front of house work. Under certain circumstances students may satisfy a part of the course requirements in acting assignments. Attendance at workshops and/or rehearsals is required. (6 credits)*

** A student may not register for more than six credits in Production courses in any one year nor more than three credits in any one semester.*

PRODUCTION C201
Theatre Production A1

Prerequisite: Enrolment in a major, minor, or specialization in Theatre Arts, or written permission of the Section. *All students complete a variety of assigned tasks in technical production and/or front of house work. Under certain circumstances students may satisfy a part of the course requirements in acting assignments. Attendance at workshops and/or rehearsal outside of class time is required. (3 credits)** *NOTE A/See § 200.3*

** A student may not register for more than six credits in Production courses in any one year nor more than three credits in any one semester.*

*** Students from other disciplines may satisfy the requirements of this course by completing assignments in related areas of production such as music and dance.*

PRODUCTION C300
Theatre Production B11

Prerequisite: Production C200, or C201 and written permission of the Section. Students complete assigned tasks in theatre production in the areas of technical production, front of house work or acting. (6 credits)* *NOTE A/See § 200.3*

** A student may not register for more than six credits in Production courses in any one year, nor more than three credits in any one semester.*

PRODUCTION C301
Theatre Production AII

Prerequisite: Production C200 or C201. A continuation of Production C200 or C201. (3 credits)* *NOTE A/See § 200.3*

** A student may not register for more than six credits in Production courses in any one year, nor more than three credits in any one semester.*

PRODUCTION C303
Art Dramatique

Prérequis: Facilité en français et l'approbation de la Section. Cet atelier pratique vise à sensibiliser les étudiants aux exigences du texte dramatique et aux réalités de la scene. Les membres de ce cours montent et interprètent une pièce ou quelques actes du théâtre français ou québecois, ou des scènes créées dans le cours. (3 crédits) *NOTE A/See § 200.3*

PRODUCTION C304
Independent Study 1

Prerequisite: Permission of the Section and six credits in Performance or Scenography. Credit granted to individual students under the supervision of a Faculty member for practical drama production activity outside the academic Theatre programme. Each completed project includes planning, participation and a written evaluation of the practical experience. (3 credits) *NOTE A/See § 200.3*

PRODUCTION C305
Independent Study II

Prerequisite: Production C304 and permission of the Section. Continuation of Production C304. (3 credits) *NOTE A/See § 200.3*

PRODUCTION C400
Theatre Production BIII

Prerequisite: Production C300. A continuation of Production C300. (6 credits) * *NOTE A/See § 200.3*

** A student may not register for more than six credits in Production courses in any one year nor more than three credits in any one semester.*

PRODUCTION C401
Theatre Production AIII

Prerequisite: Production C300 or C301. A continuation of Production C300 or C301. (3 credits)* *NOTE A/See § 200.3*

** A student may not register for more than six credits in Production courses in any one year nor more than three credits in any one semester.*

Scenography:

SCENOGRAPHY C200
Scenography Design Studio

Application of concepts of visual design for theatrical production. Emphasis is on the research processes and resources for visual materials in period architecture, furniture, decor and costume applied to the development of scenic and costume design. Students are required to develop portfolios of designs and visual resource materials. (6 credits) *NOTE A/See § 200.3*

SCENOGRAPHY C201
Stagecraft I

An introduction to the fundamentals of technical drawing for the theatre, stage lighting instrumentation, and the materials, equipment and techniques employed in the construction of stage scenery and properties. (3 credits) *NOTE A/See § 200.3*

SCENOGRAPHY C202
Stagecraft II

Prerequisite: Scenography C201. A continuation of Scenography C201, including scene painting, the design and construction of stage properties, and more advanced work in technical drawing for the theatre. (3 credits) *NOTE A/See § 200.3*

SCENOGRAPHY C203
Stage Make-Up

A practical course in the basics of stage make-up with emphasis on its use as an aid in the expression of dramatic character. Students are required to supply the make-up for the lab sessions. (3 credits)

SCENOGRAPHY C220
Costume Construction
Practical work in the cutting and construction of stage costumes. Consideration is given to the composition and handling of fabrics. (6 credits) *NOTE A/See § 200.3*

SCENOGRAPHY C300
Scenic Design
Prerequisite: Scenography C200 and C202. Studio work in designing scenery for theatrical productions. Emphasis is on the development of design concepts from script to stage and on techniques of presentation including drafting, rendering and model making. Students are required to develop their portfolios in scenic design. (6 credits) *NOTE A/See § 200.3*

SCENOGRAPHY C301
Stagecraft III
Prerequisite: Scenography C202. Practice in the planning, organization, preparation and performance phases of theatrical production. Students assume positions of responsibility in production management, stage management, technical direction and other major areas. (3 credits) *NOTE A/See § 200.3*

SCENOGRAPHY C303
Advanced Technical Problems
Prerequisite: Scenography C202. Advanced practical work in scenery and properties construction techniques such as welding and thermoplastics. Technical drawing skills are developed and employed in solving complex construction problems. (3 credits)

SCENOGRAPHY C310
Lighting and Sound
Prerequisite: Written permission of the Theatre Art Section. The technology and aesthetics of lighting and sound in the theatre. Students assume positions of responsibility for lighting and sound in theatrical productions. (6 credits) *NOTE A/See § 200.3*

SCENOGRAPHY C320
Costume Design
Prerequisite: Scenography C200 and six credits in Studio Art, or written permission of the Theatre Arts Section. The theory and practice of designing costumes for theatrical production. The course includes the development of design concepts, their application to projects, and methods of presentation. Students are required to develop their portfolios in costume design. (6 credits) *NOTE A/See § 200.3*

SCENOGRAPHY C401
Special Scenographic Techniques
Prerequisite: Written permission of the Theatre Arts Section. Practical work in one or more specialized area of theatre scenography such as advanced make-up techniques, masks, special effects, projected scenery. (3 credits) *NOTE A/See § 200.3*

SCENOGRAPHY C402
Special Scenographic Techniques
Prerequisite: Written permission of the Theatre Arts Section. A student repeating Scenography C401 registers under Scenography C402 for credit. (3 credits).

SCENOGRAPHY C410
Scenography Design Projects
Prerequisite: Concurrent registration in a Production course and written permission of the Theatre Arts Section. Advanced projects in costume, lighting and/or scenic design. Students are required to realize at least one of their projects in production and to develop their portfolios in design. (6 credits) *NOTE A/See § 200.3*

Theatre Performance:

THEATRE PERFORMANCE C201
Acting I
Emphasis on developing imagination and physical expression, including basics of improvisation. Preparation of scenes and play excerpts for class study. (3 credits) *NOTE A/See § 200.3*

THEATRE PERFORMANCE C202
Acting II
Prerequisite: Theatre Performance C201. Preparation for the role, including scene and character analysis and the continued development of imagination and expression. Focus is on the presentation of scenes from plays. (3 credits) *NOTE A/See § 200.3*

THEATRE PERFORMANCE C203
Performance Techniques I: Fundamentals of Voice and Movement
An introduction to the use of the body as an acting tool, with emphasis on movement, comprising exercises for vocal and physical flexibility, relief from tension, expressiveness of gesture and body composition, spatial awareness, vocal support, vocal quality, and speech mechanics. (3 credits) *NOTE A/See § 200.3*

THEATRE PERFORMANCE C204
Performance Techniques II: Fundamentals of Voice and Movement
Prerequisite: Theatre Performance C203. Integration of body and voice with increased focus on the speech processes. (3 credits) *NOTE A/See § 200.3*

THEATRE PERFORMANCE C303
Performance Techniques III: Voice and Speech
Prerequisite: Theatre Performance C204. Development of vocal expression with emphasis on performance analysis. (3 credits)

THEATRE PERFORMANCE C304
Performance Techniques IV: Voice and Speech
Prerequisite: Theatre Performance C303. Continued development of vocal expression with emphasis on the study of dialects. (3 credits)

THEATRE PERFORMANCE C305
Directing I
Prerequisite: 12 credits from Theatre Performance and Scenography and written permission of the Section. Examination of and experimentation in staging and production organization. Exercises in visual, structural and conceptual analysis. (3 credits) *NOTE A/See § 200.3*

THEATRE PERFORMANCE C306
Acting III
Prerequisite: Theatre Performance C202 and C204 and written permission of the

Section. A continuation of Acting II focusing on an in-depth study of the development of character in relation to the dramatic text beginning with the realistic genre. Presentation of scenes. (3 credits).

THEATRE PERFORMANCE C307
Acting IV

Prerequisite: Theatre Performance C306 and written permission of the Section. A continuation of the study of character in the realistic genre moving toward an examination of character within other selected theatrical styles. Presentation of scenes. (3 credits)

THEATRE PERFORMANCE C401
Acting V

Prerequisite: 24 credits in Theatre Performance (excluding Theatre Performance C305) and written permission of the Section. A studio course in acting styles with detailed analysis of plays of various periods. (3 credits)

THEATRE PERFORMANCE C402
Acting VI

Prerequisite: Theatre Performance C401. Exploration of an experimentation in contemporary approaches to performance style and form. (3 credits)

THEATRE PERFORMANCE C405
Directing II

Prerequisite: Theatre Performance C305 and written permission of the Section. Students direct short plays for studio presentation. Lectures and independent research. (3 credits)

THEATRE PERFORMANCE C406
Performance Techniques V: Special Movement and Vocal Skills

Prerequisite: Written permission of the Section. Fundamentals of special stage techniques for the theatre performer such as stage combat, dance and singing. (3 credits) *NOTE A/See § 200.3*

THEATRE PERFORMANCE C407
Performance Techniques VI: Special Movement and Vocal Skills

Prerequisite: Theatre Performance C406 and written permission of the Section. Continuation of Theatre Performance C406. Advanced study of special techniques for the theatre performer. (3 credits) *NOTE A/See § 200.3*

200 Equivalents Index

Note: Recent curricular changes will affect some of the entries in the following lists. A student who suspects that a course he proposes to take may be equivalent to another for which he already has credits should consult his programme adviser.

200.1 Faculty of Arts & Science

Curricular change in the Faculty will affect some of the entries in the following list. A student who suspects that a course he proposes to take may be equivalent to another for which he already has credits should consult his programme adviser.

NOTE A **The use of this note after certain course descriptions indicates, that there exists an equivalent course and that students who have the equivalent course may not take the listed course for credits. To find out the equivalents to the listed course refer to the index below.**

NOTE B **The use of this note after certain language course descriptions indicates that students for whom this is their mother tongue or whose schooling has been conducted in this language will not be admitted to this course.**

NOTE C **The use of this note after certain course descriptions indicates, that with the permission of the Department a student may take the listed course twice for credits provided that a different subject is dealt with the second time.**

Course	Old Numbers and Equivalents	
Andragogy — see Education		
Anthropology		
C211	S211	
C321 C322	S421	
C362	S462	
C364	S464	
C365	S465	
C367	S467	
C368	S458	
C394	S497	
C395	S498	
C301	—	
C302	—	
C325	S425	
C368	S468	
C369	S458	
C397 C398	S495	
C426	—	
C434	S434	
C459	S459	
C460	S461	
C469	—	
C494	S494	
C499	S499	
Applied Social Science		
C212	S212	
C321	S321	
C351	S351	
C400	S400	
C413	S413	
C421	S421	
C431	S431	
C441	S441	
C442	S442	
C451	S451	
C452	S452	
C453	S453	
C454	S454	
C455	S455	
C461	S461	
C471	S471	
C472	S472	
C481	S481	
C482	S482	
C485	S485	
C486	S486	
Arabic		
C481	S411	
Biology		
C200	300Z	
C201	201A/B, N201	
C203	341A	
C205	N241	
C206	335A/B	
C207	N255	
C208	331A	
C209	333B	
C220	N202	
C222	N380	
C223	N381	
C230	N203, 321A/B	Zool N210
C232	N214, 327A	
C233	329B	
C237	Zool N361	Zool 462
C238	422Z	
C240	N204, 311A/B	
C242	Bota N213	
C246	Bota N216	
C250	N215	
C260	N343	
C270	N253, 315A	
C320	N372	
C321	N373	
C330	Zool N215	
C331	420Z, N211	
C332	Zool N213	
C333	Zool N320, 440Z	
C335	Zool N331, 527A	Zool N330 (471)
C336	Zool N332	
C337	424Z	
C338	Zool N210, N212	
C339	522Z	
C341	N254, 511A	
C342	Bota N210	
C343	415A	
C345	N461	
C347	Bota N231	
C348	Bota N320, N360, Biol 410Z	
C351	N310	

Course	Old Numbers and Equivalents	
C352	461C	
C353	N312	Bota N312, N313 Zool N313, N316
C355	N314, 565A	
C356	315A	
C360	430Z	
C361	435A	
C362	437B	
C363	N344	
C364	N224	
C365	N433, 431A	
C370	317B	
C380	N351, 343B	
C420	N434	
C421	N435	
C431	N317, 567B	
C432	529B	
C433	524Z	
C434	542Z	
C441	N422	
C442	N421, 517B	
C450	N416	
C454	N313	
C460	N446	
C461	531A/B	
C462	N350	
C463	N360	
C464	N421	Zool N422
C465	N445	
C467	433B	
C470	N356	
C490	N490, 590Z	

Bio-Physical Education

C201	L201
C211	L211
—	L213
C241	L241
C251	L251
C261	L261
C310	L310
C313	—
C331	L331
C333	L333
C335	L335
C337	—
C342	L342
C351	L351
C353	L353
C355	L355
C357	L357
C370	L370
C393	L393
C395	—
C397	L397
C399	—
C401	L401
C411	L411
C412	L412
C413	L413
C415	L415
C421	L421
C426	L426
C433	L433
C436	L436
C451	L451
C453	L453
C455	L455
C462	L462
C464	L464
C466	L466
C468	L468
C470	L470
C472	L472
C480	L480
C481	L481
C482	L482
C483	L483
C484	L484
C486	L486
C488	L488
—	L490
—	L493
—	L497

Course	Old Numbers and Equivalents
Chemistry	
C205	210
	N201
C206	N202
	210
C211	342
	N211
	N213
C221	N231
	322
C222	322
	N231
	N233
C231	336
	338
	N241
C232	336
	N241
C233	532
	N462
C234	338
C241	312
	N222
C242	314
	N223
C280	315
C281	317
C282	411
C310	442
	N311
C311	344
	N350
C312	N352
C313	541
	N314
C314	444
	N411
C315	442
	N311
C316	344
	N350
C317	N352
C318	541
	N314
C319	444
	N411
C321	422
	425
	N331
C322	422
	N331
C323	425
	427
	N336
	N337
C326	427
	N336
	N337
C327	452
	N382
	N383
C328	523
	N338
C329	422
	N331
C331	N342
C332	433
	N343
C333	445
C338	432
	N342
C339	432
	N343
C342	412
	N323
C343	452
	N281
C348	412
	N323
C371	491
	493
	N371
C380	N380
C390	N354

Course	Old Numbers and Equivalents
C391	N350
C399	N354
C411	—
C416	—
C419	552
	N419
C421	N431
C422	N431
C427	N481
C431	435
	N442
C432	N443
C433	532
	N463
C434	447
C435	525
	N346
C436	531
C439	534
	N445
C441	415
	N422
C442	413
	N322
C449	N322
C450	552
	N491
C470	590
	N471
C471	590
	N471
C472	N472
C473	592
C474	592
C475	594
	N339
C476	594
C479	590
	N471
C490	N453
C491	N452
C498	N452
C499	N453

Classics

C211		L211	
C212		L212	
C220		L220	
C222		L222	
C224		L224	
C225		L225	
C230	HIST C219	L230	HIST L219
C231	HIST C221	L231	HIST L221
C240	HIST C223	*L240 S212	HIST L223
C241	HIST C224	*L240 S212	HIST L223
C242	HIST C225	*L241 S212	HIST L225
C343	HIST C320	*L241 S214	HIST L225
C344		L344	
C346	HIST 321	L346	HIST L324

** NOTE: Owing to restructuring of Ancient History courses, students should consult department when in doubt.*

C448	HIST C420	L448	HIST L420
C449	HIST C422	L449	HIST L422
C250		L250	
C251		L251	
C252		L252	
C253		L253	
C254		L254	
C256		L256	
C260		L260	
C264	HIST C227	L264	HIST L227
C265	HIST C229	L265	HIST L229
C268	L268		
C269	L269		
C280	L280	Ancient Greek S210	
C380	L380	Ancient Greek S241	
C480	L484		

Course	Old Numbers and Equivalents	
C481	L482	
C482	L486	
C483	L488	
C484	L480	
C485	L480	
C290	L290	LATIN S210
C390	L390	LATIN S240
C490	L494	
C491	L491	
C492	L490	
C493	L492	
C494	L392	
C495	L496	
C496	L498	

Communication Studies

C205	L205
C230	—
C240	—
C255	L255
C275	L275
C278	L278
—	L281
—	L287
C284	—
C300	L300
C301	L301
C302	L302
C303	L303
C304	L304
C305	L305
C306	L306
C307	L307
C308	L308
C309	L309
C310	L310
C311	L311
C312	L312
C313	L313
C314	L314
C315	L315
C316	L316
C317	—
C330	L330
C331	L331
C350	L350
C360	L360
C361	L361
C362	L362
C363	L363
C374	—
C375	L375
C378	L378
C381	L381
C384	L384
C387	L387
C417	L417
C435	L435
C437	—
C440	L440
C441	L441
C442	L442
C443	L443
C444)	L436
C445)	
C451	L451
C452	L452
C465	L465
C466	L466
C467	L467
C468	L468
C475	—
C481	L481
C487	L487
C495	L495

Economics

C200	L202
C201	L209 S209
C203	L210 S210
C221	L404
C222	S207

Course	Old Numbers and Equivalents
	S375 N375 375
	INTRO STAT N-275
C250	L304
	S221
C301	L309
C302	L310
	S311
C303	L311
C304	L312
	S318
C311	L401
C312	L403
	S440
C315	S446
C316	L338
C317	S304
	S305
C323	S274
C325	L322
C326	S270
	S271
C331	L407
	S316
C335	S420
C336	L436
C341	S422
C351	L414
	S434
C352	S438
C353	S430
C361	S306
C370	L434
	S460
C374	S468
C375	S465
C377	L307
C381	L438
C481	S428
C382	L448
C383	S429
C386	S309
C387	L402
C391	L333
	S307
C392	L418
C493	S426
	S427
C396	S308
C397	S310
C398	L493
	S490
C399	L494
	S491
C401	L465
	S411
C403	L481
	S418
C405	L451
C408	L462
	C415
C411	S442
C412	S443
C413	L405
C421	L455
	S476
C422	S477
C425	S412
C426	S413
C428	L471
C432	L467
C435	—
C442	L447
	S423
C443	L449
C450	—
C461	L445
C462	—
C473	L413
C476	L464
*C381	L438
C481	C428
C490	L440
C392	L418
C493	S426
	S427
C495	L411
C498	L495
	S493
C499	L496
	S494

* For SGW students ECON C381 is equivalent to ECON S428
For Loyola students, ECON C381 and ECON C481 are equivalent to ECON L438

Education

Adult Education (previously Andragogy)

C200	C200
C210	—
C220	C401
C230	C209 and C320
C330	C201
C331	—
C340	C301
C341	C309
C342	C303
C350	—
C460	C421
C461	C423
C490	—
C491	—
C492	C400
C493	—
C410	EDUC C452

Education

C201	S201
C210	S210
C211)	S211)
C260)	S260)
C270)	S270)
C271	S271
C230	S230
C262	S262
—	—
C305	S305
C306	S306
C370	S370
C390	S390
C391	S391
C392	S392
C393	S393
C413	S413
C414	S414
C416	S416
C417	S417
C421	S421
C426	S426
C427	S427
C430	S430
C431	S431
C432	S432
C433	S433
C434	S434
C435	S435
C441	S441
C442	S442
C445	S445
C461	S461
C470	S470
C471	S471
C480	S480
C481	S481
C497	S497
C498	S498

English

C205		S205
C206		S206
C209		S209
C211	L200	S211
OR		
C212	L200	S211
C213		

Course	Old Numbers and Equivalents	
C225		S225
C226		S226
C227		S227
C232	L272	
C234	L262	
C237	L260	S237
C238		S238
C239		S239
C249	L237	
C250	L239	
C251		S251
C252		S252
C254	L252	
C255	L280	
C256	L311	S241
OR		
C257	L311	S241
C258		
C259	L246	
C260		S260
C262		S262
C263		S263
C267		S267
C268	L412	
C271	L301	
C273	L303	
C275	L305	S231
C277	L307	
C279		S234
C280		S232
C281	L210	S281
C282	L208	S282
C283	L264	S283
C284		S287
C286	L342	
OR		
C287	L341	
C288		
C290	L352	S244
OR		
C291	L233	
C292		
C295	L355	
C296	L357	
C297	L363	
	L365	
C300	L346	S348
OR		
C301	L345	
C302		
C304		S337
C305		S356
C310	L407	S374
C314	L410	S466
C315	L424	S333
C316	L413	
C317	L415	
C318		S363
C320	L212	S375
C326	L426	
C327	L425	
C330		S376
C332	L434	S334
OR		
C333	L433	
C334		
C335	L429	S364
C338	L438	S335
OR		
C339	L437	
C340		
C342	L442	S336
OR		
C343	L441	
C344		
C346	L446	
C349		S365
C350	L450	
C354	L454	
C357		S367
C358		S368
C360	L218	
C362	L220	
C363	L223	

Course	Old Numbers and Equivalents	
C364	L225	
C376		S343
C377		S344
C378	L236	
C384	L244	
C386		S386
C390	L472	S351
C392	L216	S353
C393		S318
C394	L309	S315
C395	L270	
C398		S311
C425		S425
C426		S426
C427		S427
C430	L402	S460
C434	L481	S476
C435		S478
C436		S479
C438	L420	
C440		S440
C442		S442
C443		S443
C444	L483	
C445	L485	
C448	L487	S448
C449	L489	S449
C456		S456
C457		S457
C459		S459
C460	L240	S430
C462		
C474	L474	
C475	L475	
C477	L477	
C479	L479	S487
C484		
C490	L490	
C491	L492	S492
C492		S493
C493		S496
C494		S497
C495		
C496	L496	
C498	L494	S491
C499		

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C201	S201
C203	S203
C204	S204

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C200	L200*
C201	S201*
C202	L201*
	S202
C203	S203
C204	L202*
C205	S211*
C220*	S222*
C250	L213
	L215
C251*	L473
	L477
	S331*
C260	L452*
	S314*
C261	L352*
	S314*
C262*	L428*
	S417*
C264	S313
C265	S418
C270	L471
	S241*
C271	L475
C300	L303*
C301	L305*
C302	L303*
	L304*
C303	306*
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Course	Old Numbers and Equivalents
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C305	L322*
C306	L324*
C307	—
C308	L307
C309	L308
C310	L309
C311	L311
C312	L313
C313	L314
C314	L315
C315	L316
C316	L317
C317	L318
C318	L319
C319	L320
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C321	—
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C354	L265 S432*
C355	L267 L269
C356	L267
C357	L269
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C361	L462*
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C363	—
C364	—
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C369	—
C370	—
C371	—
C372	L210* L211 S462*
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C383*	L448*
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C422	—
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C428	—
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C435	L353 L355
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C440	L425 L427 S429*
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C452	L477
C453	—
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C459	—
C460	—
C461	S441
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C468	—
C469	—
C472	L441 L443 S462
C473	L445 L447
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C481	—
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C483	--
C489*	S410*
C498*	L498* S491*

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		L276		
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C276		311B		
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C313	—			
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C317	C317	L317	483B	
C322	C322	S322	N322	N421, 421
C323	C323	S323	N323	N423, 411
C325	C325	L325	471A	
C331	C331	S331	N331	431
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C345	C345	S345	N345	445
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C351	C351	S351	N351	351
C355	C355	S355	N355	455
C356	—			
C357	C357	S357	N357	457
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C359	C359	L359	413B	
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C363	C363	S363	N363	243,N262 or 242 prior to 1973-74 Stat. course
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C373	C373	S373	N373	473
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C451	C451	S451	N451	452
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C462	C462	S462	N466	466
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C220[3]	202B, N323
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C311[6]	311Z, N333
C312[3]	312A, N338
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C314[3]	421A, N322
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	C220
C221	L203
	C221
C250	L208
	L209
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	C250
C251	—
C255	L206
	L207
C300	L276
	L277
	S311
C305	L276
	L277
C350	S351
	C350
C400	L320
	L321
C405	S451
C410	L350
	L351
	S452
C415	L380
	L381
C420	L400
	L401
C425	L430
	L431
C430	L450
	L451
C435	S453
C440	S354
C445	S445
	C445
C450	S457
	C450
C460	S456
	C460
C470	L470
	S458
	C470
C471	L471
	S459
	C471
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	C417	L430
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	C432	L432
	C433	L433
	C435	L440
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	C438	L437
	C445	L445
	C447	L447
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	C496	L496
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	C270	L270
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	C320	L320
	C323	L323
	C331	L331
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		L398
	C398	L397
		L398
	C401	L401
	C403	L403
	C408	L408
	C410	L410
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	C210	
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C310	—	
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C328	S335	
C329	L250	
C330	S333	
C331	L351	
C332	L353	
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C301	INTE L393
C302	INTE S300
C320	INTE L311
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C350	SCHA S312
C351	SCHA S351
C370	INTE L351
C371	INTE L353
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C390	INTE L307
C391	INTE L309
C392	INTE L314
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C423	INTE L413
C430	INTE L460
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C453	SCHA S472
C454	SCHA S493
C455	SCHA S494
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	C220
C221	L203
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C250	L210
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C255	L220
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C421	L341
C425	L350
C426	L351
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C300	C300	L300
C301	C301	L301
C310	C210	
C311	C211	
C320	C320	L320
C321	C321	L321
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C360	C360	L360
C361	C361	L361
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C305	N305	
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C332		L377
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C366	N366	L451
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C394	N391	
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C400	N400	
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C402	N402	
C403	N403	
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C405	N405	
C406	N406	
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C409	N409	
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C270	L206
C272	L214, S442
C280	L204, S471
C282	L202, S470
C290	—
C291	—
C300	L330, S436, S437
C310	L300
C311	S413
C312	S412
C320	S455
C323	L316
C324	L321
C325	L401
C330	L213, S446
C335	S443
C337	L325, S424
C340	L318, S432
C342	S454
C343	L402
C344	L343
C345	—

Course	Old Numbers and Equivalents
C350	Part of L304
C351	Part of L304
C353	S440
C354	S441
C357	L323
C358	S448
C360	L209, S457
C370	L302, S420
C372	L406, S458
C373	—
C377	L421
C380	L310
C382	S445
C390	L360
C391	—
C392	—
C393	—
C400	L400, S438, S439
C401	S330
C402	—
C403	—
C405	L403, S422
C409	L450, S481
C410	S411
C411	S310
C415	S414
C423	—
C426	—
C435	L423, S447
C450	S450
C457	S449
C460	S452
C480	—
C482	—
C485	L462
C490	—
C491	—
C492	—
C493	—
C494	—
C495	—

Spanish

C210	L200
	L201
	S201
	S202
	C210
C211	—
C220	L202
	L203
	L204
	C220
C235	—
C250	L208
	L209
	S241
	C250
C251	—
C271	—
C255	L206
	L207
	C235
C300	L270
	L271
	S311
	C300
C305	L276
	L277
	S413
	C305
C360	L300
	S221
	C360
C361	L301
	S222
	C361
C400	L320
	L321
C405	L400
	L401
	S451
	C405
C410	L410
	L411
	S452
	C410
C415	L420
	L421
	S453
	C415
C420	L430
	L431
	S454
	C420
C425	L440
	S454
	C425
C430	L441
	S454
	C430
C435	L460
	C435
C440	L450
	S456
	C440
C445	L451
	S455
	C445
C450	L470
	C450
C455	L460
	C455
C460	S412
C480	L480
	C480
C481	L481
	C485
C482	—
C483	—

Teaching of English as a Second Language

C201	S201	N-201	
C211			
C221	S221	N-221	Appl Ling 241 or 441
C231	S231	N-231	Appl Ling 231 or 431
C318	S318	N-317	
		N-319	
C322	S322	N-222	Appl Ling 421 or 221
C323	S323	N-223	Appl Ling 421 or 221
C341	S341	N-241	
C351	S351	N-351	Appl Ling 451 or 251
C382	S382	N-480	
C383	S383	N-480	
C384	S384	N-480	
C411	S411	N-311	
C412	S412	N-312	
C415	S415	N-315	
C422	S422	N-422	Appl Ling 421 or 221
C423	S423	N-423	Appl Ling 421 or 221
C431	S431	N-431	
C434	S434	N-434	
C442	S442	N-442	
C479	S479	N-479	
C482	S482	N-481	
C483	S483	N-481	
C484	S484	N-481	
C491	S491	N-490	
C492	S492		

Theological Studies

C200	L200
C202	L202
C205	—
C206	—
C210	—
C211	—
C220	—
C221	—
C225	—
C240	L240
C241	L241
C264	L264
C266	L265
C350	—
C385	—
C386	—
C400	L400
C402	L402

Course	Old Numbers and Equivalents
C405	L405
C406	L406
C407	L407
C408	L408
C409	—
C410	—
C411	L411
C412	L412
C428	L232
C429	L231
C430	—
C434	—
C448	—
C451	L451
C453	—
C454	—
C455	—
C456	—
C457	—
C458	—
C459	—
C460	—
C461	—
C462	—
C463	—
C464	—
C467	—
C468	L468
C470	—
C471	L221
C498	L499
C499	L499

200.2 Faculty of Commerce and Administration

NOTE A **The use of this note after certain course descriptions indicates, that there exists and equivalent course and that students who have the equivalent course may not take the listed course for credits. To find out the equivalents to the listed course refer to the index below.**

NOTE C **The use of this note after certain course descriptions indicates that with the permission of the Department a student may take the listed course twice for credits provided that a different subject is dealt with the second time.**

Course	Old Numbers and Equivalents			
Accountancy				
C213	N-213	211	313A/B, 300	
C214	N-214	211	315B, 300	
C217			411A/B, 400, 402	
C218	N-216	Man 411 Fin 416	413B, 402	
C220 (120)			320Z	
C221 (121)			320Z	
C323	N313	411	415B, 400	
C325	N314	412	419B, 408	
C403	N421		503A	C421
C407			507B	
C410			417B, 498	C324
C414	N215 N315	Man 411 Fin 416	511B	C425
C422	N422			
C429	N432	431	517B, 508 519B, 508	C432
C432	N433	431		C433
C441	N441	Com. Law 441	513A/B, 504	
C442			515B, 504	
C451	N451		(Computer Auditing New Name)	
C461	N461		509A, 507B	
C407			560Z	
C471			560Z	
Administration				
C201 (101)	N-201		312Z	
C202 (102)	N-202		312Z	
C350			515B	
Finance				
C215	N-215	315, 413	407A/B, 408	
C314	N-314	413	409B, 408	
C315	N-315	413		
C417	N-417			
C418	N-418			
C430	N-430	424		
C431	N-431	424		
C440	N-440	423, 426	541B	
C441	N-441	423, 426		
C452	N-450	423, 427	530Z	
C453	N-450	423	530Z	
C455	N-455	427		
C460	N-460	429		
C461	N-461	429		
Management				
C211	N-211	Com Law 211		
C213	N-213	Psyc 011, 211		
C214	N-214	Soc 211		
C215	N-215			
C313			413A/B, 414	
C315			415B, 414	
C340	N-340	430		
C341	N-341	430		
C345	N-345	421	470Z	
C346	N-346	421	470Z	
C368	N-368	451	503B	
C369	N-369	451		
C401			501A	
C405			505B	
C407			507A	
C409			509B	
C460	N-460	453	511B	
C461	N-461	453		
C462	N-462	432		
C463	N-463	432		
C464	N-464	433		
C465	N-465	433		
C466	N-466	452		
C467	N-467	452		
C475	N-475	211	502Z	
C476	N-476	211	502Z	
C499			560Z	
Marketing				
C213	N-213	211, 411, 421	419A/B, 320	
C350	N-350	211, 411, 421	421B, 320	
C352	N-352	431		
C402	N-402	412, 451	551B	
C452	N-342	412, 451		
C453	N-453	221, 222, 431	523B	
C454	N-454	414, 461	521A	
C463	N-463	481		
C464	N-464			
C485	N-485			
C490	N-490			
C491	N-491			
Quantitative Methods				
C208 (108)			300Z, Math 310	
C209 (109)			300Z, Math 310	
C243	N-243	242, Math 241, Stat 242	308Z	
C244	N-244	242, Stat 242	308Z	
C313	N-313	411, QA 411	518Z	
C314	N-314	411, QA 411	518Z	

Course	Old Numbers and Equivalents	
C353	N-353	Math 415
C354	N-354	Math 415
C415	N-415	412
C423	N-423	421
C424	N-424	421
C425	N-425	422
C426	N-426	422
C433	N-433	
C445	N-445	442
C446	N-446	442

200.3 Faculty of Fine Arts

NOTE A The use of this note after certain course descriptions indicates that there exists an equivalent course and that students who have the equivalent course may not take the listed course for credit. To find out the equivalents to the listed course refer to the index below.

NOTE C The use of this note after certain course descriptions indicates that with the permission of the Section a student may take the listed course twice for credit, provided that a different content is dealt with the second time.

Course	Old Numbers and Equivalents		
Division of Visual Arts			
STUDIO ART			
Art	**Art**	**Fine Arts**	
C200	N-331, N-332		300, 301
C434	N-433, N-434	433	
C436	N-435, N-436		
C460	N-460	431	
Crafts			
	Cera		
C200	C200		
	Art	**Art**	
C310	C432	N-432	
Design			
C200	N-370, N-470	490	320
Drawing			
C200	N-210	410	310, 311
C300	N-400		
C400	N-401		
Graphic Design			
C260	N371, N471 C200, C250	494	
C300	N373, N374	492	
C410	N475, N476	493	
C430	N473, N474	491	
Painting			
C200	N-211, N-311	411	333, 434
C300	N-312, N-411	412	435, 536
C400	N-412, N-413	414	
C450	N-414		
Photography			
C200	N338, N438 C201, C301		
Printmaking			
C210	N-381, N-382 (200)	281	451
C220	N-381, N-382 (200)	281	451
C230	N-381, N-382 (200)	281	451
C310	N-481, N-482 (300)	481	
C320	N-481, N-482 (300)	481	
C330	N-481, N-482 (C300)	481	

Course	Old Numbers and Equivalents		
Sculpture			
C200	N-321, N-322	221	340, 441
C300	N-421, N-422	421	542
C400	N-423, N-424	422	
ART EDUCATION			
Art Education			
C200	N-251	251	400, 401
C400	N-450	450	
C430	N-430	452	
ART HISTORY			
Art History		**Art**	**Art**
C232	N-232		
C240	N-240	240	390
C338	N-341	241	499
C339	N-341	241	499
C342	N-342	242	493, 494, 495
C343	N-343	243	496
C346	N-446	446	
C441	N-441		
C442	N-442		
C443	N-443		
C444	N-444	444	491
C445	N-445		
C455	N-345	245	
C471	N-448	448	
C472	N-449	449	
C480	N-447	447	
C490	N-450		
CINEMA			
Film Animation	**Cinema**	**Cinema**	
C312	C312	312	
C313	C313	313	
C414	C414	414	
Film Production	**Cinema**	**Cinema/ Moving Pictures**	
C231	C311	211	
C332	C411	411	
C334	C334		
C335	C335		
C337	C437	431	
C339	C433		
C341	C333		
C432	C412	412	
C438	C438		
C445	C436		

Course	Old Numbers and Equivalents		
C446	C450		
C447	C451		
C448	C428		
C449	C429		
Film Studies	**Cinema**	**Cinema/ Moving Pictures**	
C200	C200		
C211	C211	257	
C212	C212	258	
C314	C426		
C315	C427		
C321	C321		
C322	C322		
C323	C323		
C425	C436		
C426	C440		
C427	C441		
C428	C428		
C429	C429		

MUSIC

Music			
C221	N211		
C222	N212		
C223	N233		
C230	N232		
C330	N332		
C430	N432		
C471	N-471		
Contemporary Music Studies	**Music**		
C300	N-338		
C401	N-481		
C402	N-482		
C411	N-485		
C412	N-486		
C413	N-487		
C414	N-488		
Integrative Music Studies			
C200	N-235		
C300	N-335		
C310	N-321		
C321	N-351		
C322	N-352		
C331	N-449		
C332	N-450		
C401	N-435 (C400)		
C402			
C410	C411	N-353	
C421	N-355		
C422	N-356		
C431	N-451		
C432	N-452		
C440	C412	N-354	
Music History			
C200	N-245		
C401	N-468		
C402	N-469		
Music in Education			
C301; C302 (C300)	N-421		
C431	N-475		
C432	N-476		
Music Performance Studies			
C200	C201	N-201	
C201		N-201	
C220	C201	N-201	
C221	C201	N-201	

Course	Old Numbers and Equivalents	
C300	C301	N-301
C301		N-301
C311		N-336
C312		N-337
C320	C301	N-301
C321		N-436
C322		N-437
C431		N-465
C432		N-466
C433		N-467
C434		N-468

World Music	**Music**
C300	N-345
C310	N-343
C320	N-360
C330	N-370
C340	N-380

Division of Performing Arts

THEATRE ARTS

Theatre	**Theatre Arts**	**Theatre Arts**	**Drama**
C200 (C201)(281)			
C300	N-247	247	
C301			351
C320	N-340	440	
C401			431
C402			531
C403			561
C404			591
Drama in Education	**Theatre Arts**	**Theatre Arts**	**Drama**
C200	N-331	231	523
C400	N-431	431	573
Production			
C200 (C201)			401
C300 (C301; C302)			451
C303			553
C304			421
C305			471
C400 (C401; C402)			551
Scenography			
C200	N-212	212	
C201			311
C202			363
C220 (C321)			
C300	N-312	412	
C301			415
C310 (C302)			465
C320	N-315	215	
C401	N-413	413	
C410	C400 C420		
Theatre Performance			
C201, C202			341
C203, C204	N-421	421	441
C305			541
C406	C403		

200.6 Faculty of Engineering

Course	Old Numbers and Equivalents	
Engineering Mathematics		
C212	N-312	
C232	N-332	
C252	N-352	
C271	N-371	
C311	N-411	
C312	N-412	
C391	N-491	
Engineering		
C212		
C213	C211	N-211
C221		N-221
C242		N-242
C243		N-243 N-241
C244		N-341
C251		N-351
C273		N-373 N-372
C274		N-374 N-371
C341		N-441
C361		N-361
C362		N-461
C372		N-472
C402		
C403	C401	N-501
C410		N-510
C411		N-511
C412		N-512
C471		N-571
C472		N-572
C473		N-573
C474		N-574
C475	Mech C471	
C491		N-581
C492		N-582
C493		N-583
C494		N-584
C495		N-585
C496		N-586
Civil Engineering		
C231	C331	N-431
C271	C371	N-471
C321		N-421
C341		N-441
C353		N-453 N-451
C354		N-454 N-452
C372		N-472
C381		N-481 N-461
C411		N-511
C412		N-512
C431		N-531
C434		N-534 N-533
C435		N-535 N-532
C452		N-552
C453		N-553
C454		N-554
C451		N-555 N-551
C456		EngrN-541
C471		N-571
C472		N-572
C473		N-573
C481		N-581
C482		N-582
C483		N-583
C484		N-584 N-562
C485		N-585 N-561
C491		N-591
Electrical Engineering		
C251		C-351
C311		N-411
C312		N-412
C316		N-416
C321		N-421
C331		N-431
C333		N-433
C334		N-434
C341		N-441
C351		N-451
C401		N-501
C411		N-511
C413		N-513
C414		N-514
C415		N-515
C416		N-516
C421		N-521
C422		N-522
C431		N-531
C433		N-533
C441		N-541
C442		N-542
C453		N-553
C454		N-554
C461		N-561
C462		N-562
C481		N-581
C482		N-582
Mechanical Engineering		
C311		N-411
C312		Engr N-212
C321		N-321
C341		N-441
C342		N-442
C351		N-451
C352		N-452
C373		EngrN-473
C411		N-511
C421		N-521
C423		N-423
C441		N-541
C443		N-543
C445		N-545
C452		N-552
C453		N-553
C455		N-555
C461		N-561
C462		N-562
C463		N-563
C481		N-581
Quality Control		
C200		E-900
C201		E-901
C202		E-902
C203		E-903
C204		E-204
C205		E-205
C206		E-906
C207		E-907
C208		E-908

New Concordia	Other Equivalents	Old SGW 1977/78	Old Loy	SGW 1976/77
Computer Science				
C211	111, CEGEP Data Processing 911	S211	241	N211
C217			301	
C221		S221		N221
C231		S231	337	N220
C241		S241		N223
C251	QUAN C423	S251	311	N222
C311		S216	341	N310
C321			423	
C322		S322	435	N301
C323		S323		N340
C325		S325		N430
C341			433	
C342		S342		N303
C351			421	
C352		S352	451	N312
C361		S361	343	N320
C362			424	
C372			429	
C421			427	
C426		S426		N431
C435		S435		N404
C436		S436	551	N421
C441			515	
C443		S443	537	N302
C445		S445		N440
C453		S453	555	N413
C455		S455	313	N311
C456		S456		N414
C465		S465		
C471		S471		N405
C475		S475	425	N450
C490			561	
C491		S491	561 & 563	N491

Graduate Programmes: Concordia

The following graduate programmes are offered at Concordia University. Major options within a programme are also listed. In most cases, courses are given in the late afternoon and evening, or in the evening only, making it possible for both full-time and part-time students to attend. Please contact the graduate programme director at the number indicated for further information.

Centre for the Teaching of English as a Second Language		
M.A.	J. Palmer	879-8590
Department of Biological Sciences		
M.Sc.		
Option A: With Thesis	S. M. Ruby	879-4220
Option B: Teaching of Biology	R. Roy	879-7233
Department of Building Engineering		
M.Eng. & Ph.D.	M. Shapiro	879-5857
Department of Chemistry		
M.Sc.		
Option A: With Thesis	Z. Hamlet	879-4157
Option B: Teaching of Chemistry	R. T. Rye	879-4159
Ph.D.	Z. Hamlet	879-4157
Department of Civil Engineering		
M.Eng. & Ph.D.	A. S. Ramamurthy	879-4079
Faculty of Commerce and Administration		
M.B.A.	D. R. Emery	879-8571
Ph.D.	P. Pasold	879-8101
Diploma in Accountancy	H. Mann	879-4042
Diploma in Institutional Administration	H. Mann	879-4042
Diploma in Sports Administration	G. Short	482-0320 Ext. 735
	H. Mann	879-4042
Department of Communication Studies		
Diploma in Communication Studies	C. Fischer	482-0320 Ext. 275
Department of Computer Science		
M.Comp. Sci.	J. McKay	879-8039
Department of Economics		
M.A.	J. Ahmad	879-8096
Ph.D.	J. Ahmad	879-8096
Department of Education		
M.A. (Educational Studies)	H. Entwistle	879-8443
Option A: Philosophy of Education		
Option B: History of Education		
Option C: Educational Problems		
M.A. (Educational Technology)	P. D. Mitchell	879-4016
Diploma in Early Childhood Education	M. Farrell	879-5993
Diploma in Instructional Technology	D. Dicks	879-8132
Department of Electrical Engineering		
M.Eng. & Ph.D.	V. Ramachandran	879-2828
Department of English		
M.A.	E. Pechter	879-4208
Diploma in English	E. Pechter	879-4208

Faculty of Fine Arts		
M.F.A. (Art History or Visual Arts)	W. Sanderson	879-4198
M.A. (Art Education)	W. Sanderson	879-4198
Ph.D. (Art Education)	W. Sanderson	
Diploma in Art Education	S. Horner	879-8593
Department of History		
M.A.	C. Nish	879-8088
Ph.D.	C. Nish	879-8088
Faculty of Arts & Science Committee-Humanities		
Ph.D. (Humanities) (Interdisciplinary)	V. Zeman	879-5833
Library Studies		
Diploma in Library Studies	C. Campbell	482-0320 Ext. 431
Department of Mathematics		
M.A. and M.Sc.	M. Szabo	879-8426
M.T.M. (Master of Teaching Mathematics)	J. Hillel	879-4262
Option A: M.T.M. (High School level)		
Option B: M.T.M. (Collegial level)		
Option C: M.T.M. (Elementary School level)		
Diploma in the Teaching of Mathematics	G. Cohen	879-5834
Department of Mechanical Engineering		
M.Eng. & Ph.D.	S. Katz	879-5878
Department of Philosophy		
M.A.	D. Laskey	879-4833
Diploma in Theological, Religious and Ethical Studies	M. Fahey	482-0320 Ext. 403
Department of Physics		
M.Sc.	S. K. Misra	879-4065
Ph.D.	S. K. Misra	879-4065
Department of Political Science		
Diploma in Community Politics and the Law	M. Danis	879-4225
Department of Psychology		
M.A. (Applied Psychology)	A. Doyle	879-5936
M.A. (General-Experimental)	E. Brussell	879-4151
Ph.D.	T. Arbuckle-Maag	879-4147
Department of Religion		
M.A. (History and Philosophy of Religion)	F. Bird	879-7255
M.A. (Judiac Studies)	M. Oppenheim	879-2845
Ph.D.	C. Davis	879-2843
Diploma in Theological, Religious & Ethical Studies	M. Fahey	482-0320 Ext. 403
Department of Sociology		
M.A.	G. LeCavalier	879-5943
Department of Theological Studies		
Diploma in Theological, Religious and Ethical Studies	M. Fahey	482-0320 Ext. 403

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January

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